

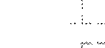
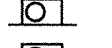

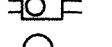

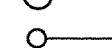
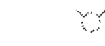







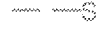
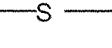

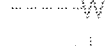
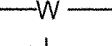





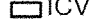


CITY OF TORRANCE, CALIFORNIA 90503



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LEGEND

EXISTING	PROPOSED	DESCRIPTION		
(FG ELEV)	FG	FINISHED GRADE	TG	INDICATES TOP OF GRATE ELEVATION
(FL ELEV)	FL	FLOW LINE	HP	INDICATES HIGH POINT ELEVATION
(FS ELEV)	FS	FINISHED SURFACE	INV.	INDICATES INVERT ELEVATION
(TC ELEV)	TC	TOP OF CURB	B.O.P.	INDICATES BOTTOM OF PIPE
		CATCH BASIN	T.O.P.	INDICATES TOP OF PIPE
		SD JUNCTION STRUCTURE	TW	INDICATES TOP OF WALL ELEVATION
		SEWER MANHOLE	BW	INDICATES GRADE AT BASE OF WALL
		SEWER CLEANOUT	CL	INDICATES CENTERLINE
		FIRE HYDRANT		INDICATES CONSTRUCTION NOTE
		GATE VALVE		INDICATES HANDICAP PARKING SPACE
		STORM DRAIN		INDICATES RETAINING WALL
		SEWER		INDICATES TRACT BOUNDARY/PROPERTY LINE
		WATER		INDICATES GRADING & PERMIT LIMITS
		SITE LIGHT (LANDSCAPE)		
		IRRIGATION CONTROL VALVES		

DEMOLITION NOTES

	DESCRIPTION
1	CUT, CAP AND REMOVE ALL INDICATED EXISTING UTILITIES FROM THE SITE AND DISPOSE OF PROPERLY. PATCH CONCRETE AS REQUIRED
2	PROTECT IN PLACE
3	REMOVE EXISTING RIPRAP AS REQUIRED FOR PROPOSED GRADING PLAN PER SHEET C-14
4	REMOVE EXISTING PLANTS
5	REMOVE PORTION OF EXISTING CONCRETE DITCH AS REQUIRED FOR PROPOSED GRADING PLAN PER SHEET C-14
6	CLEAR AND GRUB TO LIMITS AS SHOWN
7	NOT USED
8	EXISTING PUMPS TO BE RETURNED TO CITY
9	ICE PLANT AND NON-NATIVES TO BE REMOVED
10	REMOVE AC DEBRIS, CRUSH AND SPREAD ON PARKING AREAS
11	ABANDON VALVE
12	REMOVE EXISTING CHAIN LINK FENCE
13	SAWCUT EXISTING CONCRETE: CUT, CAP AND REMOVE EXISTING 10" DIP. SEE DETAIL ON SHEET C-42
14	REMOVE AND REPLACE CHAIN LINK FENCE
15	NOT USED
16	NOT USED
17	REMOVE TELEPHONE POLES PRIOR TO GRADING AND RESTORE TO ORIGINAL POSITION UPON COMPLETION OF GRADING
18	SAWCUT AND REMOVE APPROXIMATELY 15 LF OF EXISTING CURB
19	REMOVE FENCE AND GATE
20	REMOVE EXISTING AC
21	REMOVE IRRIGATION SYSTEM AS REQUIRED

CONSTRUCTION NOTES

	DESCRIPTION
1	CONSTRUCT 3'-12" P.C. OVER 4' C.M.B. ACCESS ROAD, ENTRANCE WALKWAY
2	AND/OR VIEW AREA (ADA AREA) PER DETAIL ON SHEET C-37
3	CONSTRUCT WINGWALLS PER CALTRANS STD. D90 TYPE A PER DETAILS ON
4	SHEET C-43, C-44, C-45, C-46, AND/OR C-47
5	CONSTRUCT RIPRAP PER DETAILS ON SHEET C-39 AND C-40
6	INSTALL PET WASTE BAG DISPENSER AND TRASH RECEPTACLE PER
7	SPECIFICATIONS
8	CONSTRUCT VEGETATED SWALE PER DETAIL ON SHEET C-39
9	INSTALL SPEED BUMP PER CITY OF TORRANCE RECOMMENDATION
10	SEE IRRIGATION PLANS (L1-L5) FOR CONNECTION
11	CONSTRUCT NEW RHINO GATE TO REPLACE EXISTING VEHICLE GATE AT THE
12	PARKING LOT PER DETAIL ON SHEET C-39
13	CONSTRUCT DIRT TRAIL (NON ADA), WIDTH PER PLAN, AND PER DETAIL ON SHT
14	C-37
15	CONSTRUCT EARTHEN CHANNEL PER DETAILS ON SHEET C-39
16	INSTALL TIMBER BRIDGE PER DETAILS ON SHEET C-34
17	CONSTRUCT 4' X 32" TRENCH DRAIN AND INSTALL GRATE COVER - GRATING
18	PACIFIC OR APPROVED EQUAL, PER DETAIL ON SHEET C-37
19	INSTALL REINFORCED CONCRETE DOUBLE BOX CULVERT PER CALTRANS STD.
20	D81 AND DETAILS ON SHEET C-24
21	CONSTRUCT V-DITCH (W=4') PER DETAIL ON SHEET C-39
22	CONSTRUCT CONCRETE STEPS PER DETAIL ON SHEET C-40
23	CONSTRUCT MASONRY RETAINING WALL PER SPWW 618-3. SEE PROFILE ON
24	SHEET C-50
25	INSTALL PAVERS PER DETAIL 'F' ON SHEET C-40
26	INSTALL (2) 10" D.I.P. FORCE MAINS AND BACKFILL PER CITY OF TORRANCE
27	STD. NO. T-701 (ALL RESTRAINED JOINTS)
28	PROVIDE 4' WIDE CURB CUT WITH 1' WIDE BACKING NO. 2 SLOPE PROTECTION
29	INSTALL WATER QUALITY MONITORING STATION PER DETAILS ON SHEET C-42
30	RECONSTRUCT 4' A.C. OVER 4' C.M.B. EXIST. ACCESS ROAD
31	EXISTING V-GUTTER TO BE REMOVED AND REPLACED IN KIND
32	CONSTRUCT CONCRETE ENCASEMENT OVER FORCE MAIN ELBOWS WITH ALL
33	RESTRAINED JOINTS
34	STRUCTURAL CRACK REPAIR BY EPOXY INJECTION (ACI RAP-1) ON CONCRETE
35	SLOPE LINER PER ASTM C 881
36	CUT 20' WIDE OPENING IN EXISTING BLOCK WALL FOR VIEWING; PROTECT
37	EXISTING FOOTING
38	CONSTRUCT WROUGHT IRON FENCE PER DETAIL ON SHEET L-8
39	CONSTRUCT 15'x15' 4" P.C. PAD
40	INSTALL HDPE CORRUGATED DOUBLE WALL PIPE
41	CONSTRUCT CONCRETE COLLAR PER SPWW 390-4
42	INSTALL DIRECT ACTING PRESSURE REDUCING VALVES
43	INSTALL METAL HAND RAIL PER DETAIL ON SHEET C-39
44	CONSTRUCT WINGWALLS PER CALTRANS STD D84 TYPE A
45	INSTALL APPROXIMATELY 11 LF OF WROUGHT IRON FENCE PER DETAIL 'F' ON SHEET C-40
46	REMOVE AND REPLACE CHAIN LINK FENCE PER SPECIFICATIONS (H-5)
47	CONSTRUCT WINGWALLS PER CALTRANS STD. 120-2 TYPE A1-6
48	INSTALL 4" REMOVABLE BOLLARDS - CAL PIPE SECURITY BOLLARD MODEL BP 40/40 OR
49	APPROVED EQUAL
50	INSTALL DRIVE GATE AND WALK GATE PER SPWW STD. 600-3 AND DETAIL 'G' - SHT C-40
51	INSTALL GALVANIZED STEEL RAILING PER DETAIL ON SHEET C-40
52	INSTALL COMPACTED BACKFILL WITH 3' C.M.B. COVER
53	INSTALL VIEWING BENCH AND RECOGNITION/INFORMATION SIGN PER DETAIL L-7
54	CONSTRUCT KEYSTONE GRAVITY WALL. SEE SECTION A3-A30 ON SHEET C-25
55	CONSTRUCT 6' WIDE PER SPWW STD. 120-2 TYPE A1-6
56	CLEAR ALL VEGETATION ON BLOCK WALL (10' EACH SIDE OF OPENING), PER SPECS
57	CONSTRUCT REINFORCED CONCRETE RETAINING WALL PER SPWW 616-4. SEE PROFILE
58	ON SHEET C-50
59	CONSTRUCT 4' C.M.B. ACCESS ROAD/TRAIL (NON ADA) PER DETAIL ON SHEET C-37
60	INSTALL 14' D.I.P. FORCE MAIN AND BACKFILL PER CITY OF TORRANCE STD. NO. T-701
61	INSTALL 14" CL 50 D.I.P. PIPE SPOOL - LENGTH TO BE DETERMINED PER FIELD
62	CONDITION
63	INSTALL FLEX-A-MAT TIED CONCRETE BLOCK MAT (OR APPROVED EQUAL) EROSION
64	CONTROL PER DETAIL ON SHEET C-39
65	INSTALL CONCRETE HEADER - 4' WIDE X 6" DEEP, ON GRADE
66	INSTALL 4" PVC IRRIGATION PIPE

PUMP CONSTRUCTION NOTES

51 INSTALL 8' X 14' X 10' DEEP REINFORCED CONCRETE WET WELL PER PLAN ON
SHEET C-14

52 INSTALL 7' X 14' X 5.5' DEEP REINFORCED CONCRETE VALVE VAULT PER PLAN ON
SHEET C-14

53 INSTALL 1 - 250HP VFD SUBMERSIBLE PUMP #1 (PART #2) WITH A DESIGN PUMPING
RATE = 4,566 GPM AT A TOTAL DYNAMIC HEAD (TDH) = 142 FEET AND CAPABLE OF
PASSING 3 INCH DIAMETER SOLIDS

54 INSTALL 2 - 450HP VFD SUBMERSIBLE PUMPS #2 AND #3 (PART #4) WITH A DESIGN
PUMPING RATE = 2,087 GPM AT A TDH = 144 FEET AND CAPABLE OF PASSING 3 INCH
DIAMETER SOLIDS

55 NOT USED



56 INSTALL 1 - 15HP 60HZ SUBMERSIBLE PUMP #4 (PART #7) WITH A DESIGN PUMPING
RATE = 59 GPM AT A TDH = 201 FEET

57 INSTALL ALL PIPE AND FITTINGS PER SIZE AND DIAMETER PROVIDED IN PARTS LIST
LOCATED ON SHEET C-19 AND IN THE SPECIFICATIONS

OWNER

CITY OF TORRANCE
ROBERT BESTE, PUBLIC WORKS DIRECTOR
 PUBLIC WORKS DEPARTMENT
 20500 MADRONA AVENUE
 TORRANCE, CA 90503
 (310) 781-6900 - PHONE

PROPERTY LOCATION, LEGAL DESCRIPTION, LEGEND, SHEET INDEX : C-1

REV.	DATE	DESCRIPTION	BY	CHECKED	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT			
△	12/11/13	AMIE PUMP STATION UPGRADES OMITTED	VP	J.C.D.		DRAWN: ALF	APPROVED:	
						DESIGNED: C.P.	 5/26/13 TORRIC J. SEMAAN DATE ACTING CITY ENGINEER R.C.E. NO. 59226 EXP. 06/30/13	
						PROJECT ENGINEER: VIKRAM BAPNA		
						DIVISION ENGINEER: JOHN DETTLE		SCALE: AS SHOWN SHEET <u>2</u> OF <u>111</u>
							PLAN NO. SD - 500	

IMPORTANT NOTICE

SECTION 4216/4217 OF THE GOVERNMENT CODE
REQUIRES A DIGALERT IDENTIFICATION NUMBER
BE ISSUED BEFORE A "PERMIT TO EXCAVATE"
WILL BE VALID. FOR YOUR DIGALERT TOLL FREE
811 TWO WORKING DAYS BEFORE YOU DIG.



UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

DIAL TOLL FREE
8 1 1
AT LEAST TWO DAYS
BEFORE YOU DIG

PREPARED BY:



1561 E. ORANGETHORPE AVE., SUITE 240
FULLERTON, CA 92831
(714) 526-7500 OFFICE (714) 526-7004 FAX
www.cwecorp.com

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE PROJECT SPECIFICATIONS. WORK NOT COVERED BY THE PROJECT SPECIFICATIONS SHALL CONFORM TO THE FOLLOWING LATEST EDITION AND SUPPLEMENTS BELOW:
- A. "THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK).
B. TORRANCE MUNICIPAL CODE (TMC), THE PROJECT SOILS REPORT / SPECIAL REQUIREMENTS OF THE PERMIT.
C. WEST BASIN MUNICIPAL WATER DISTRICT (WBMWD) SPECIFICATIONS AND STANDARD DRAWINGS.
2. DUST SHALL BE CONTROLLED BY WATERING AND/OR DUST PALLIATIVE.
3. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE DURING THE CONSTRUCTION PERIOD.
4. WORK HOURS ARE LIMITED FROM 7:30 AM TO 6:00 PM MONDAY THROUGH FRIDAY; 9:00 AM TO 5:00 PM SATURDAYS; AND NO WORK ON SUNDAYS AND HOLIDAYS OBSERVED BY THE HALL. NOISE, EXCAVATION, DELIVERY AND REMOVAL SHALL BE CONTROLLED PER SECTION 46.3.1 OF THE TMC.
5. THE STAMPED SET OF APPROVED PLANS SHALL BE ON THE JOB SITE AT ALL TIMES.
6. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING UTILITIES.
7. APPROVED DRAINAGE PROVISIONS AND PROTECTIVE MEASURES MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING THE GRADING OPERATION.
8. HAUL ROUTES FOR IMPORT OR EXPORT OF MATERIALS SHALL BE APPROVED BY THE CITY OF TORRANCE AND CONFORM TO SECTION 61.9.2 OF THE TMC.
9. POSITIVE DRAINAGE SHALL BE MAINTAINED AWAY FROM ALL BUILDING AND SLOPE AREAS.
10. NO PAINT, PLASTER, CEMENT, SOIL, MORTAR OR OTHER RESIDUE SHALL BE ALLOWED TO ENTER STREETS, CURBS, GUTTERS OR STORM DRAINS. ALL MATERIAL AND WASTE SHALL BE REMOVED FROM THE SITE.
11. CONSTRUCTION SITE MUST BE FENCED AND SECURE AT ALL TIMES AND SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

NOTICE TO CONTRACTOR(S)

1. PLANS ARE NOT TO BE UTILIZED UNLESS STAMPED "APPROVED" BY THE ENGINEER OF RECORD.
2. CONTRACTOR SHALL PROVIDE TIMELY NOTIFICATION TO THE ENGINEER OF RECORD OF ANY POTENTIAL OR ACTUAL DISCREPANCIES BETWEEN CIVIL PLANS AND OTHER PLANS/ACTUAL FIELD CONDITIONS.
3. CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF PLANS IN THE FIELD. PLANS SHALL BE MARKED UP TO REFLECT ACTUAL OR AS-BUILT CONDITIONS. PLANS SHALL BE KEPT CURRENT. CONTRACTOR SHALL ALSO MAINTAIN ALL NECESSARY STANDARD PLANS AND SPECIFICATIONS IN THE FIELD.
4. QUANTITIES PROVIDED HEREIN ARE ENGINEER'S ESTIMATES FOR PERMITTING OR BONDING PURPOSES ONLY AND ARE NOT TO BE USED FOR BIDDING. CONTRACTOR SHALL PERFORM ITS OWN CONSTRUCTION TAKEOFFS.
5. NOT ALL UTILITIES MAY BE SHOWN, CONTRACTOR SHALL FIELD VERIFY ELEVATIONS AND LOCATIONS OF ALL AFFECTED UTILITIES. PROTECT IN PLACE, RELOCATE, OR REPLACE AS NECESSARY. PROVIDE TEMPORARY UTILITY SERVICES AS NECESSARY.
6. WHERE EXISTING WATER SERVICES OR SEWER LATERALS ARE TO BE UTILIZED, CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND FUNCTIONALITY OF SUCH SERVICES OR LATERALS.
7. ELEVATIONS INDICATED MAY HAVE BEEN INTERPOLATED FROM EXISTING TOPOGRAPHIC OR RECORD MAPS, CONTRACTOR SHALL FIELD VERIFY ELEVATIONS AND LOCATIONS WHERE PROPOSED IMPROVEMENTS JOIN EXISTING.
8. ROUGH GRADE, FINISH GRADE, AND AS-BUILT CERTIFICATIONS SHALL BE PERFORMED BY THE ENGINEER OF RECORD.
9. UTILITIES PLANS ARE INTENDED TO SHOW ALIGNMENT ONLY, EXACT POSITIONS OF DEVICES INCLUDING BUT NOT LIMITED TO METERS, BACKFLOWS, DETECTOR CHECKS, FIRE DEPARTMENT CONNECTIONS, POST INDICATOR VALVES, SPRINKLER RISERS, AND HYDRANTS SHALL BE FIELD-DETERMINED AFTER CROSS CHECKING CIVIL PLANS AGAINST ARCHITECTURAL, PLUMBING, SPRINKLER, AND OTHER APPLICABLE PLANS.
10. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, INSTALLATION DRAWINGS, CATALOG CUT-SHEETS, PRODUCT SPECIFICATIONS, AND OTHER APPLICABLE SUBMITTALS, IN A TIMELY MANNER, TO THE ENGINEER FOR APPROVAL.
11. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES AND/OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. APPROVAL OF THESE PLANS BY THE CITY OF TORRANCE DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OR COMPLETENESS OF THE LOCATION OR THE EXISTENCE OR NON-EXISTENCE OF ANY UTILITY AND/OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR IS REQUIRED TO TAKE ALL DUE PRECAUTIONARY MEANS TO PROTECT THE UTILITIES OF RECORD OR NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
12. THE GRADING CONTRACTOR SHALL VERIFY THE PRECISE GRADING QUANTITY AS SHOWN ON THIS PLAN AS PART OF HIS BID.
13. IT IS REQUESTED THAT THE GRADING CONTRACTOR NOTIFY THE ENGINEER OF RECORD BY CALLING AT LEAST 48 HOURS BEFORE COMPLETION OF THE GRADING OPERATION IN ORDER THAT HE/SHE MAY PERFORM A FINAL INSPECTION TO COMPLY WITH THE GRADE CERTIFICATION COMMITMENT TO THE CITY OF TORRANCE PER TMC SECTION 81.2.56.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF GRADING OPERATIONS.
15. UNAUTHORIZED CHANGES AND USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS AND THE CITY OF TORRANCE.

NOTICE TO CONTRACTOR(S)

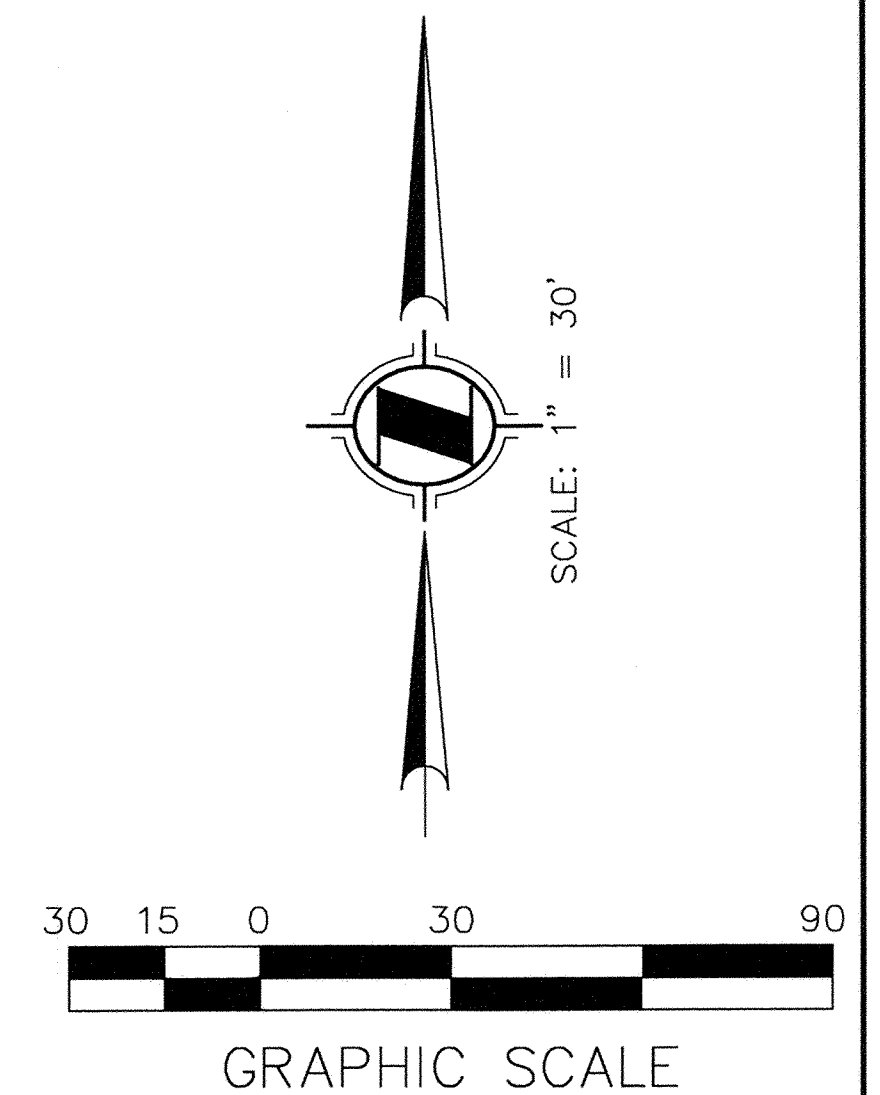
1. SPECIFICATIONS: ALL WORK SHALL CONFORM TO THE PROJECT SPECIFICATIONS. WORK NOT COVERED BY THE PROJECT SPECIFICATIONS SHALL CONFORM TO THE LATEST EDITION AND SUPPLEMENTS OF THE GREEN BOOK AND WBMWD SPECIFICATIONS AND STANDARD DRAWINGS.
2. INSPECTION: ALL WORK AND MATERIALS ARE SUBJECT TO INSPECTION PURSUANT TO SECTION 2-11 OF THE GREEN BOOK.
3. UNDERGROUND SERVICE ALERT: BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT (USA) INQUIRY I.D. NUMBER BY CALLING 8 1 1. TWO WORKING DAYS SHALL BE ALLOWED AFTER THE I.D. NUMBER IS OBTAINED AND BEFORE THE CONTRACTOR STARTS THE EXCAVATION WORK SO THAT UTILITY OWNERS CAN BE NOTIFIED. IF THE UTILITY OWNER IS THE CITY OF TORRANCE, A CONFIRMATION NUMBER INDICATING THE CITY HAS BEEN NOTIFIED SHALL BE OBTAINED BY USA AND/OR THE CONTRACTOR FROM THE APPROPRIATE CITY DEPARTMENT. THE I.D. NUMBER TOGETHER WITH THE DATE ACQUIRED SHALL BE REPORTED TO THE BUREAU OF CONTRACT ADMINISTRATION WHEN CALLING FOR INSPECTION I.D. NUMBERS WILL NOT BE GIVEN MORE THAN 10 DAYS BEFORE STARTING EXCAVATION WORK.
4. AT LEAST THIRTY (30) DAYS BEFORE THE START OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE CITY AT (310) 781-6900 TO VERIFY THAT THERE IS NO PROPOSED PROJECT IN THIS AREA.
5. NOTIFICATION: AT LEAST TEN (10) DAYS BEFORE THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY, IN WRITING, ABUTTING PROPERTY OCCUPANTS OF THE PROPOSED CONSTRUCTION START DATE. A COPY OF SAID WRITTEN NOTIFICATION SHALL BE PROVIDED TO THE INSPECTOR FOR APPROVAL BEFORE THEY ARE DISTRIBUTED TO THE OCCUPANTS OF THE ABUTTING PROPERTY.
6. TRAFFIC CONTROL PLANS PREPARED BY CONTRACTOR SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO FACILITIES.
- ADVANCE CONSTRUCTION NOTICE SIGNS:
8. IN ADDITION TO SIGNS REQUIRED BY THE CITY TRAFFIC ENGINEER, FURNISH AND PLACE SIGNS FOR GIVING ADVANCE NOTICE TO MOTORISTS OF TRAFFIC DISRUPTION AS PART OF THIS PROJECT IN ACCORDANCE WITH CITY STANDARD PLANS. THE INFORMATION, TIME AND TYPE I CREDIT SIGNS ARE ALSO REQUIRED AND SHALL BE PER CITY STANDARD PLANS.
9. CITY OF TORRANCE SHALL BE POSTED TO ACKNOWLEDGE THE SOURCE OF FUNDS PURSUANT TO THE GRANT GUIDELINES AND APPLICATION (APPLICATION GUIDELINES). SIZE, LOCATION, AND NUMBER OF SIGNS SHALL BE DETERMINED BY THE STATE. REQUIRED SIGNAGE MUST BE IN PLACE BEFORE GRANT FUNDS FOR CONSTRUCTION WILL BE RELEASED.
10. THE CONTRACTOR SHALL VERIFY ALL DIMENSION AND CONDITIONS IN THE FIELD PRIOR TO STARTING ANY WORK.
11. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF SCALED DIMENSION ON ANY PLAN. ALL DIMENSIONS SHALL BE AS DESIGNATED ON THE PLAN.
12. IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL RIGHTS TO USE PROPERTIES OUTSIDE THE CITY'S RIGHT-OF-WAY WHICH THE CONTRACTOR DEEMS NECESSARY TO PERFORM ANY OF THE WORK UNDER THIS CONTRACT. ALL PRIVATE RIGHTS SHALL BE OBTAINED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.
13. THE CONTRACTOR SHALL PROTECT ALL PUBLIC AND PRIVATE PROPERTY DURING THE PERFORMANCE OF WORK DONE UNDER THIS CONTRACT. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTION TO AVOID ANY DAMAGE TO ANY STRUCTURES OR FEATURES ADJACENT TO THE CONSTRUCTION LIMITS, THE CONTRACTOR SHALL ALSO PROVIDE FOR THE PROTECTION OF THE PEDESTRIANS.
14. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FROM THE BUILDING OFFICIAL PRIOR TO COMMENCING ANY GRADING OR EXCAVATIONS.
15. SELECTIVE REMOVALS:

A. REMOVE EXISTING IMPROVEMENTS THAT INTERFERE WITH THE CONSTRUCTION OF THIS PROJECT, AND NO MORE THAN IS INDICATED IN THE DEMOLITION PLAN.
B. ALL REMOVALS OR RELOCATIONS OF EXISTING UTILITIES SHALL BE COORDINATED WITH THE OWNER OF SAID UTILITY. NO REMOVALS OR RELOCATIONS OF EXISTING UTILITIES SHALL COMMENCE PRIOR TO APPROVAL OF SAID UTILITY.
16. REPAIR AND/OR REPLACE ANY EXISTING BROKEN OR OFF-GRADE PAVEMENT, CONCRETE CURB, GUTTER OR SIDEWALK IMMEDIATELY ADJACENT TO OR WITHIN THE AREA OF THIS IMPROVEMENT SATISFACTORY TO THE CITY ENGINEER.
17. SURVEY MONUMENT PRESERVATION IS REQUIRED AND SHALL INCLUDE SUBMITTAL OF PRE AND POST CONSTRUCTION SURVEY MONUMENT TIES TO THE ENGINEER.
18. CUTS OR EXCAVATIONS IN STREETS THAT HAVE BEEN RESURFACED ONE YEAR OR LESS FROM THE DATE OF A PROPOSED CUT OR EXCAVATION ARE PROHIBITED UNLESS THE PERMITTEE RESURFACES THE ENTIRE BLOCK OR INTERSECTION WITHIN WHICH SUCH CUT OR EXCAVATION OCCURS.
- UNSTABLE SUBSTANCE :
19. THE CONTRACTOR SHALL POTHOLE EXISTING SURFACE INSTALLATIONS CARRYING UNSTABLE SUBSTANCES TO DETERMINE THEIR LOCATIONS AND ELEVATIONS PRIOR TO COMMENCING EXCAVATION. (NO POWER TOOL PERMITTED , EXCEPT TO BREAK PAVEMENT).


20. THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH ALL UTILITY COMPANIES RESPONSIBLE FOR WORK TO BE PERFORMED NEAR THEIR RESPECTIVE FACILITIES. IN THE EVENT THAT THE CONTRACTOR'S OPERATION REQUIRES UTILITY RELOCATION IN ADDITION TO THAT SPECIFIED ON THE PLAN, SUCH ADDITIONAL WORK SHALL BE AT CONTRACTOR'S EXPENSE.
21. ALL CONCRETE AND SOIL NOT UTILIZED IN CONSTRUCTION WILL BE DISPOSED OF IN ACCORDANCE WITH THE APPLICABLE JURISDICTION REGULATION.
- STORM DRAIN CONSTRUCTION NOTES:
22. NO CONSTRUCTION DEBRIS WILL BE ALLOWED TO FALL IN TO THE CATCH BASIN OR STORMDRAIN, IF ANY MATERIAL IS INADVERTENTLY INTRODUCED, THEN IT WILL BE REMOVED IMMEDIATELY.
23. THE CONTRACTOR SHALL VERIFY THE ELEVATION OF ANY SUBSTRUCTURE INDICATED WITH AN ASTERISK (*) AND SHALL SECURE CLEARANCE OF THE ENGINEER OF RECORD BEFORE PROCEEDING WITH INSTALLATION OF THE PIPE.
- TREE REMOVAL AND ROOT TRIMMING:
24. ROOT TRIMMING: TREE(S) MUST BE TRIMMED PRIOR TO ROOT PRUNING TO COMPENSATE FOR THE ROOT LOSS AND TO STABILIZE THE TREE. THE CROWN OF THE TREE IS TO BE REDUCED BY NO MORE THAN 25% OF FOLIAGE (UNLESS APPROVED OTHERWISE BY AN URBAN FORESTRY ARBORIST). PRUNE THE ROOTS ON ONE SIDE OF THE ROOT SYSTEM ONLY (UNLESS APPROVED OTHERWISE BY AN URBAN FORESTRY ARBORIST). DO NOT PRUNE ROOTS LARGER THAN 4" DIAMETER (PERMIT IS REQUIRED).
- CONTRACTOR IS TO TRIM THE TREE(S) TO THE SATISFACTION OF THE CITY NATURALIST (PERMIT IS REQUIRED).
- NOTIFY CITY NATURALIST AT (310) 782-3989, FIVE WORKING DAYS PRIOR TO TRIMMING AND/OR ROOT PRUNING FOR A REPRESENTATIVE TO INSPECT AND ISSUE THE NECESSARY PERMITS.

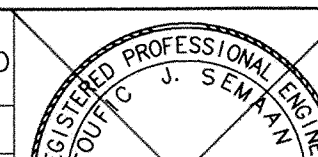

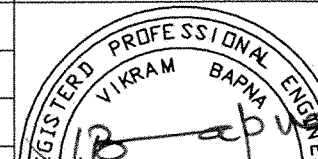
- LAY DOWN AREA:
25. THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AND PAY FOR ALL NECESSARY CONSTRUCTION LAYDOWN AREAS.
26. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITIES OF RENTING OPERATING EQUIPMENTS.
27. ALL REPAIRS TO CONSTRUCTION LAYDOWN AREAS AND TEMPORARY IMPROVEMENTS SHALL BE INSPECTED AND APPROVED BY THE INSPECTOR AND/OR AN AUTHORIZED REPRESENTATIVE OF THE PROPERTY OWNER PER REQUEST.
28. THE CONTRACTOR SHALL REMOVE, REGRADE AND, WHEN NECESSARY, BACKFILL TO RESTORE THE CONSTRUCTION LAY DOWN ACCESS AND TEMPORARY IMPROVEMENTS TO ITS ORIGINAL/FORMER CONDITION AT THE COMPLETION OF THE WORK.
29. THE CONTRACTOR SHALL BACKFILL EXCAVATED AREAS WITH ENGINEERED FILL UP TO THE ORIGINAL GRADE, UNLESS OTHERWISE SPECIFIED OR INDICATED ON THESE PLANS.
- TRAFFIC CONTROL NOTES:
30. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES; OTHERWISE, MAINTAIN ONE LANE OF TRAFFIC WITH FLAG CONTROL FROM 9AM TO 4PM WEEKDAYS. MAINTAIN LOCAL AND EMERGENCY ACCESS AT ALL TIMES.
31. THE CONTRACTOR SHALL NOTIFY CITY TRAFFIC ENGINEER AT (310) 781-6900, FOUR (4) WORK DAYS PRIOR TO THE START OF CONSTRUCTION FOR THE POSTING OF TEMPORARY "TOW AWAY NO STOPPING" SIGNS AS NEEDED.
32. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE RESTORATION OF ALL OBLITERATED STRIPING AND PAVEMENT MARKINGS AND FOR THE REINSTALLATION OF ALL OTHER MISSING OR DAMAGED TRAFFIC CONTROL DEVICES (I.E., SIGNS, CURB MARKINGS, STAMPED CROSSWALKS, PARKING METERS, ETC.). WHEN NECESSARY, ADDITIONAL RELATED TRAFFIC CONTROL DEVICES, INCLUDING, BUT NOT LIMITED TO, DETOUR/CONSTRUCTION WORKSITE TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN SUPPORT OF THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO PHYSICALLY INSTALL THESE TRAFFIC CONTROL DEVICES TO THE FULL SATISFACTION OF THE CITY TRAFFIC ENGINEER. THE ENTIRE COST THEREOF SHALL BE BORNE BY THE CONTRACTOR (UNLESS PAYMENT BY THE CITY IS PRE-APPROVED BY A CITY AGENCY). ALL STRIPING AND PAVEMENT MARKINGS SHALL BE INSTALLED UTILIZING THERMOPLASTIC MATERIALS PER CITY TRAFFIC ENGINEER. THE CONTRACTOR SHALL CONTACT THE CITY AT (310) 781-6900 FIVE (5) WORKING DAYS PRIOR TO COMMENCING ANY WORK THAT REQUIRES TRAFFIC CONTROL DEVICE MAINTENANCE.
33. FOR QUESTIONS REGARDING TRAFFIC LANE REQUIREMENTS, PLEASE CALL THE CITY TRAFFIC ENGINEER AT (310) 781-6900.

GENERAL NOTES : C-2

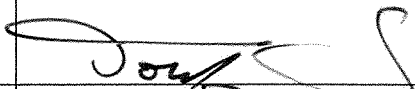


NOTES:

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FULLERTON, CA 92831
(714) 526-7500 OFFICE (714) 526-7004 FAX
www.cwecorp.com

REV.	DATE	DESCRIPTION	BY	CHECKED	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT		
						DRAWN: ALF	APPROVED:
						DESIGNED: C.P.	 5/28/13
						PROJECT ENGINEER: <u>VIKRAM BAPNA</u>	TOUFIC J. SEMAAN ACTING CITY ENGINEER R.C.E. NO. 59226 EXP. 06/30/13
						DIVISION ENGINEER: <u>JOHN DETTLE</u>	SCALE: AS SHOWN SHEET <u>4</u> OF <u>111</u> PLAN NO. <u>SD - 500</u>




CITY OF TORRANCE PUBLIC WORKS DEPARTMENT	
DRAWN: ALF	APPROVED:  5/28/13
DESIGNED: C.P.	TOUC J. SEMAAN DATE ACTING CITY ENGINEER R.C.E. NO. 59226 EXP. 06/30/13
PROJECT ENGINEER: VIKRAM BAPNA	SCALE: AS SHOWN SHEET <u>5</u> OF <u>111</u>
DIVISION ENGINEER: JOHN DETTLE	PLAN NO. SD - 500



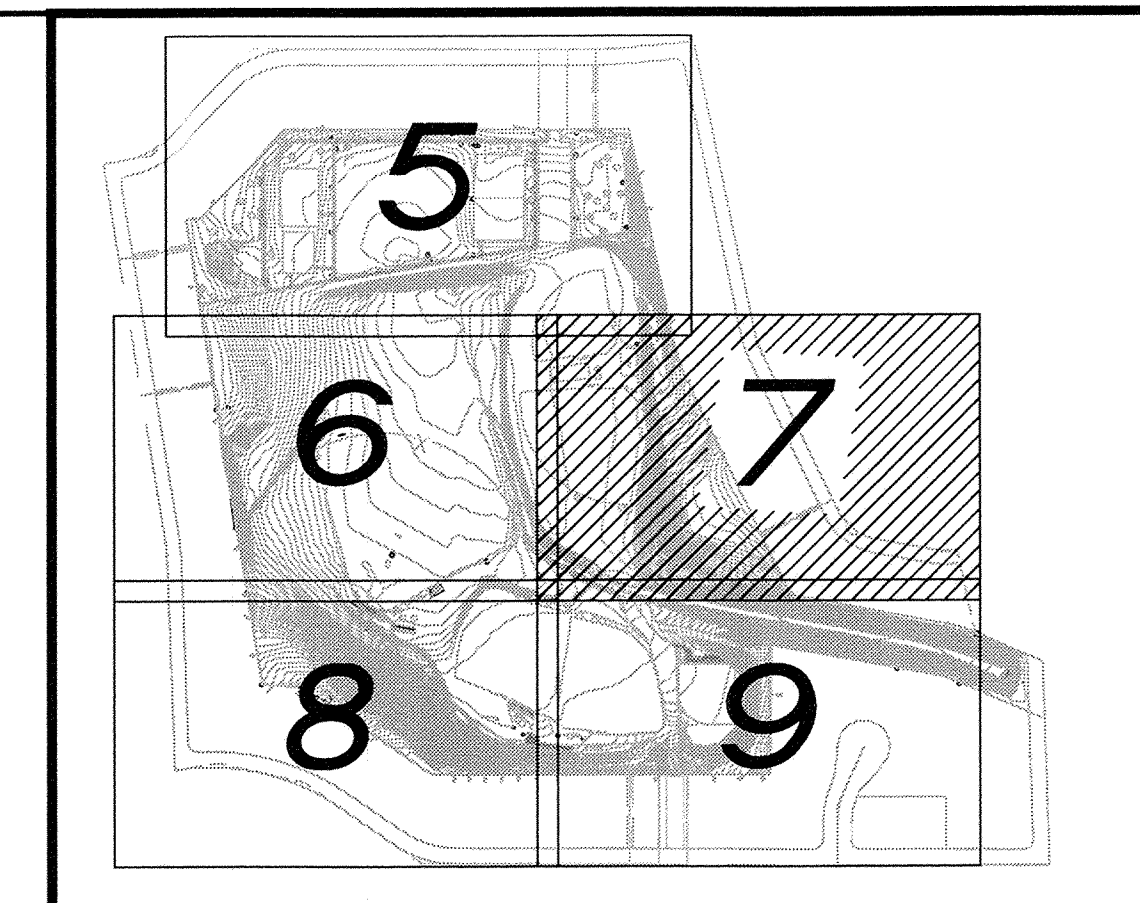
EX. SITE PLAN & TOPOGRAPHIC MAP - ENTRADERO BASIN : C-6

REGISTERED PROFESSIONAL ENGINEER
VIKRAM BAPNA
No. C52060
EXP. 12-31-14
STATE OF CALIFORNIA


APPROVED:	
 TOUFIC J. SEMAAN ACTING CITY ENGINEER R.C.E. NO. 59226	DATE 5/28/11 EXP. 06/30/13
SCALE: AS SHOWN	SHEET <u>7</u> OF <u>111</u>
PLAN NO.	SD - 500

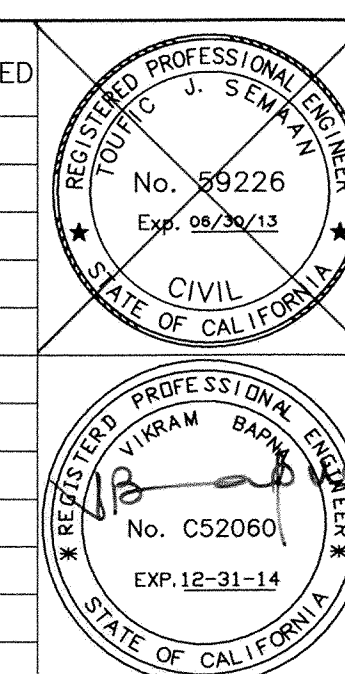


SEE SHEET C-6 FOR CONTINUATION




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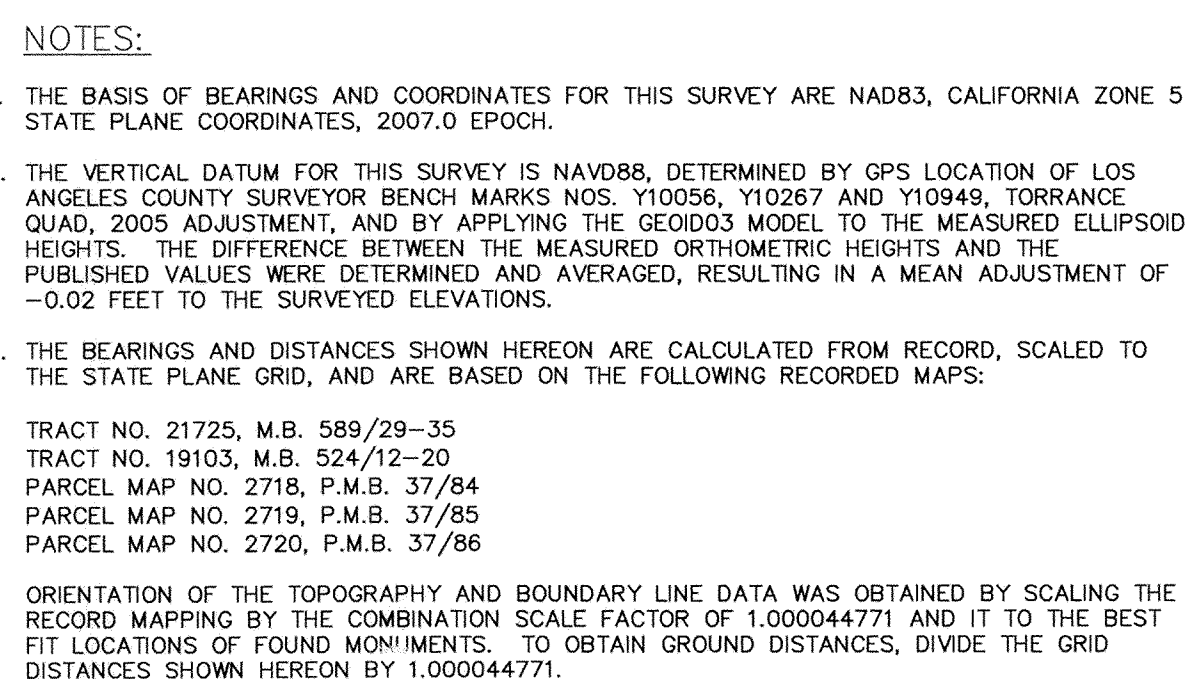
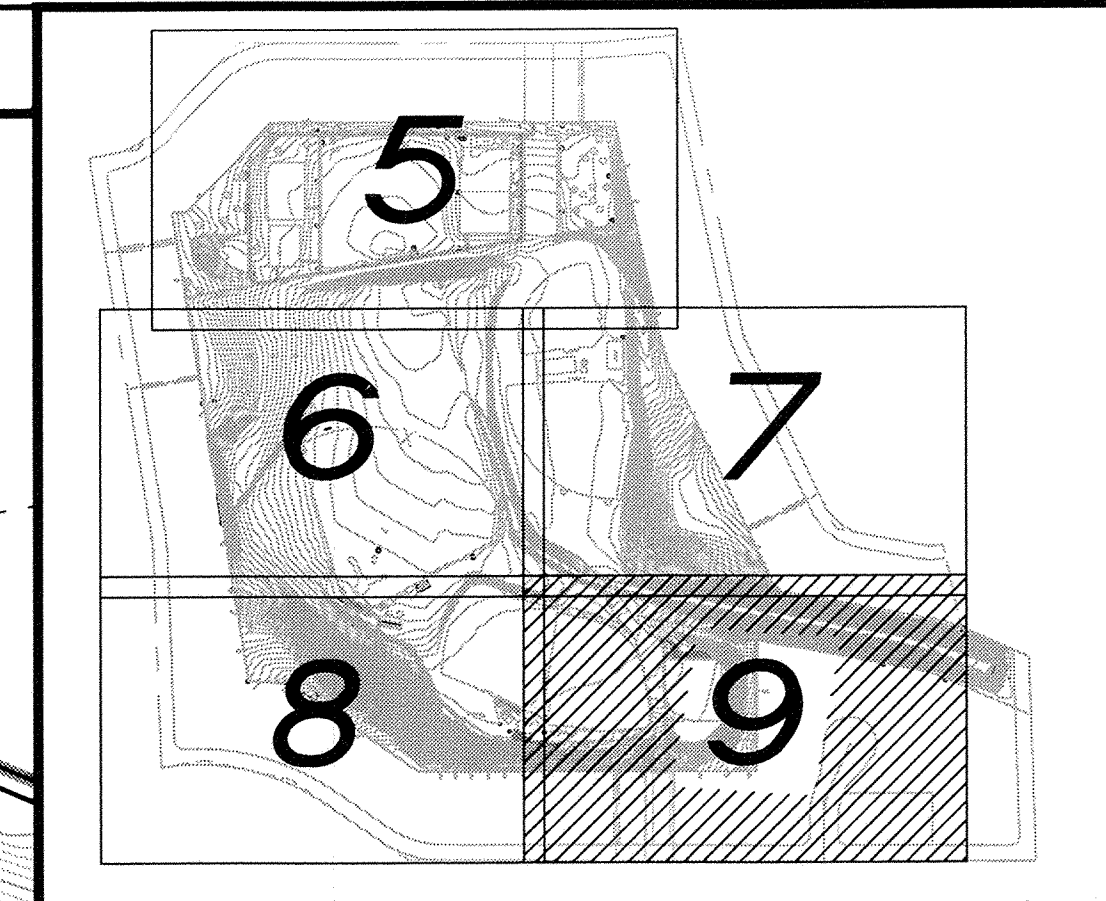
DRAWN:	ALF
DESIGNED:	C.P.
PROJECT ENGINEER:	VIKRAM BAPNA
DIVISION ENGINEER:	JOHN DETTLE

APPROVED:	
 T. J. SEMAAN ACTING CITY ENGINEER R.C.E. NO. 59226	5/28/13 DATE EXP. 06/30/13
SCALE: AS SHOWN	SHEET <u>8</u> OF <u>11</u>
PLAN NO.	SD - 500




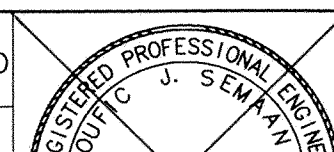


PLAN NO.	SD - 500
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SEE SHEET C-8 FOR CONTINUATION



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REV.	DATE	DESCRIPTION	BY	CHECKED	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT			
						DRAWN: ALF	APPROVED:	
						DESIGNED: C.P.		
						PROJECT ENGINEER: VIKRAM BAPNA	TODD J. SEMAAN ACTING CITY ENGINEER R.C.E. NO. 59226 DATE EXP. 06/30/13	
						DIVISION ENGINEER: JOHN DETTLE	SCALE: AS SHOWN SHEET 10 OF 111 PLAN NO. SD - 500	

GRADING NOTES

1. SPECIFICATIONS SHALL HAVE PRECEDENCE OVER DRAWINGS.
2. THE STAMPED SET OF PLANS SHALL BE ON THE JOB SITE AT ALL TIMES.
3. ALL RECOMMENDATIONS AND CONDITIONS OF THE APPROVED SOILS AND/OR GEOLOGICAL REPORT, ALL ADDENDA, SHALL BE COMPLIED WITH, AND SHALL BE PART OF THE PLANS AND SHALL BE AT THE JOB SITE AT ALL TIMES.
- CONSULTANT SOILS AND GEOLOGY REPORT BY

CONSTRUCTION TESTING & ENGINEERING, INC. DATED MAY 18, 2011
14538 MERIDIAN PKWY., SUITE A, RIVERSIDE, CA 92518
4. NO WORK SHALL BE STARTED IN OR ABOUT A GRADING PROJECT WITHOUT FIRST NOTIFYING THE GRADING INSPECTOR. SEC.91.108.9.1. 5.
5. NO GRADING WORK, INCLUDING IMPORT AND EXPORT, SHALL BE DONE BETWEEN THE HOURS OF 6:00 P.M. AND 7:00 A.M. ON ANY DAY AND NO WORK SHALL BE DONE ON SUNDAY AT ANY TIME, EXCEPT IN EMERGENCIES AS PROVIDED IN SECTION 91.7005.4 OF THE BUILDING CODE. A HAUL ROUTE SHALL BE PREPARED BY THE CONTRACTOR SATISFACTORY TO THE DEPARTMENT OF BUILDING SAFETY.
6. CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA SUFFICIENTLY DAMP TO CONTROL DUST CAUSED BY GRADING AND CONSTRUCTION. CONTRACTOR SHALL, AT ALL TIMES, PROVIDE REASONABLE CONTROL OF DUST CAUSED BY WIND.
7. IF THE GRADING JOB EXTENDS OVER A PERIOD OF TIME EXCEEDING SIX MONTHS, THE DEPARTMENT MAY REQUIRE PLANTING OF THOSE PORTIONS OF THE JOB WHERE ALL OTHER GRADING REQUIREMENTS HAVE BEEN MET IN ORDER TO PREVENT DUST AND EROSION.
8. HIGHWAY EQUIPMENT SHALL BE KEPT IN GOOD OPERATING CONDITION AND MUFFLED AS REQUIRED BY LAW.
9. EXCEPT IN EMERGENCY CASES, THE REPAIR OF CONSTRUCTION EQUIPMENTS OR THE DELIVERY OF CONSTRUCTION MATERIALS IS NOT PERMITTED BEFORE 8:00 A.M. OR AFTER 6:00 P.M. ON SATURDAY NOR AT ANY TIME ON SUNDAY.
10. THE FILL MATERIALS IN EACH TRUCKLOAD SHALL BE KEPT LOW ENOUGH TO PREVENT SPILLAGE AND SHALL BE SUFFICIENTLY WET DOWN TO PREVENT DUST.
11. NO PERSON SHALL, WHEN HAULING ANY EARTH, SAND, GRAVEL, ROCK, STONE, DEBRIS, PAPER OR ANY OTHER SUBSTANCE OVER ANY PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE, ALLOW SUCH MATERIALS TO BLOW OR SPILL OVER AND UPON THE PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE OR ADJACENT PRIVATE PROPERTY.
12. NO PERSON SHALL, WHEN EXCAVATING, COMPACTING, HAULING OR MOVING EARTH, SAND, GRAVEL, ROCK, STONE, DEBRIS, OR ANY OTHER SIMILAR SUBSTANCE, CAUSE, ALLOW OR PERMIT SUCH MATERIALS TO DROP, BE DEPOSITED, OR FALL FROM THE BODY, TIRES, OR WHEELS OF ANY VEHICLE SO USED UPON ANY PUBLIC STREET OR ALLEY WITHOUT IMMEDIATELY AND PERMANENTLY REMOVING THE SAME THERE FROM.
13. PERMISSION SHALL BE SECURED FROM THE DEPARTMENT OF PUBLIC WORKS IF THE TRUCKS ARE LOADED IN THE STREET.
14. THE LOADING OR DUMPING OF EXCESS SOIL SHALL BE APPROVED BY THE GRADING INSPECTOR PRIOR TO STARTING EXCAVATION.
15. BRUSHING AND SCARIFYING OF SLOPES SHALL PROCEED ONLY AS FAR AS PERIODICALLY CLEARED BY THE GRADING INSPECTOR.
16. PRIOR TO PLACING FILL, SLOPES SHALL BE PROPERLY PREPARED BY BRUSHING AND BENCHING.
17. LOOSE MATERIAL SHALL NOT EXCEED 3" IN DEPTH ON A GRADED SLOPE.
18. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE.
19. ALL LOOSE MATERIALS SHALL BE REMOVED OR COMPACTED PER APPROVED PLAN.
20. IF AT ANY STAGE OF WORK ON AN EXCAVATION OR FILL THE ENGINEER DETERMINES THAT FURTHER WORK AS AUTHORIZED BY AN EXISTING PERMIT IS LIKELY TO ENDANGER ANY PROPERTY OR PUBLIC WAY, THE ENGINEER MAY REQUIRE AS A CONDITION TO ALLOW THE WORK TO CONTINUE, THAT PLANS FOR SUCH WORK BE AMENDED TO INCLUDE ADEQUATE SAFETY PRECAUTIONS.
21. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE FROM THE BEGINNING TO COMPLETION OF GRADING OPERATIONS.
22. THE ENGINEERING GEOLOGIST, SOILS ENGINEER AND CIVIL ENGINEER SHALL COMPLY WITH RGA 5-67 AND SHALL PROVIDE THE DEPARTMENT WITH A GRADING CERTIFICATION UPON COMPLETION OF THE JOB.
23. AN AS-GRADED PLAN AT A SCALE OF 1" = 40' (OR OTHER SCALES DEEMED APPROPRIATE BY THE DEPARTMENT) PREPARED BY THE CIVIL ENGINEER SHALL BE SUBMITTED WITH THE REQUIRED GRADING CERTIFICATIONS TO THE DEPARTMENT UPON JOB COMPLETION FOR ALL HILLSIDE TRACT GRADING AND GRADING WORK IN EXCESS OF 5,000 CU. YD. OF EITHER CUT OR FILL OR A COMBINATION THEREOF.
24. GRADING WHICH INVOLVES REMOVAL OF LATERAL SUPPORT OF PUBLIC WAYS REQUIRES DEPARTMENT OF PUBLIC WORKS APPROVAL.
25. INSPECTIONS OF EXCAVATION AND FILLS. THE CONTRACTOR SHALL NOTIFY THE BUILDING AND SAFETY GRADING INSPECTOR WHEN THE GRADING OPERATION IS READY FOR EACH OF THE FOLLOWING INSPECTIONS:

A. INITIAL MEETING/ INSPECTION: WHEN THE PERMITTEE IS READY TO BEGIN WORK, BUT BEFORE GRADING OR BRUSHING IS STARTED, A MEETING SHALL BE HELD AT THE PROJECT SITE WITH THE CONTRACTOR AND THE INSPECTOR TO DISCUSS THE APPROVED PLANS, SOILS REPORT, AND THE SEQUENCE OF THE GRADING OPERATION.

B. TOE INSPECTION: AFTER THE NATURAL GROUND IS EXPOSED AND PREPARED TO RECEIVE FILL, BUT BEFORE ANY FILL IS PLACED.

C. EXCAVATION INSPECTION: AFTER THE EXCAVATION IS STARTED, BUT BEFORE THE VERTICAL HEIGHT DEPTH OF THE EXCAVATION EXCEEDS TEN FEET.

D. FILL INSPECTION: AFTER THE FILL PLACEMENT IS STARTED, BUT BEFORE THE VERTICAL HEIGHT OF THE LIFT EXCEEDS TEN FEET.

E. DRAINAGE DEVICE INSPECTION: AFTER FORMS AND PIPE ARE IN PLACE, BUT BEFORE ANY CONCRETE IS PLACED.

F. ROUGH GRADING: WHEN ALL ROUGH GRADING HAS BEEN COMPLETED. THIS INSPECTION MAY BE CALLED FOR AT THE COMPLETION OF THE ROUGH GRADING.

G. FINAL: WHEN ALL WORK, INCLUDING INSTALLATION OF ALL DRAINAGE STRUCTURES AND OTHER PROTECTIVE DEVICES, HAS BEEN COMPLETED AND THE AS-GRADED PLAN AND REQUIRED REPORTS HAVE BEEN SUBMITTED.

26. SPECIAL (CONTINUOUS) INSPECTIONS: CONTINUOUS INSPECTION BY A REGISTERED DEPUTY GRADING INSPECTOR SHALL BE PROVIDED FOR THE FOLLOWING CONDITIONS:

A. A CONTIGUOUS GRADING AREA EXCEEDING 60,000 SQUARE FEET.

B. AN EXCAVATED OR FILLED SLOPE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL.

C. AN EXCAVATED SLOPE EXCEEDING 40 FEET IN HEIGHT AND THE TOP OF WHICH IS WITHIN 20 FEET OF A PROPERTY LINE COTERMINOUS WITH IMPROVED PRIVATE PROPERTY OR A PUBLIC WAY.

D. FOUNDATION EXCAVATIONS BELOW A ONE HORIZONTAL TO ONE VERTICAL PLANE INWARD AND DOWN FROM THE PROPERTY LINE.
27. CONTINUOUS INSPECTION BY THE SOILS ENGINEER/GEOLOGIST IS REQUIRED FOR EXCAVATION, REMOVAL & RECOMPACTION ISSUANCE OF CERTIFICATE. IF, UPON FINAL INSPECTION OF ANY EXCAVATION OR FILL, IT IS FOUND THAT THE WORK AUTHORIZED BY THE GRADING PERMIT HAS BEEN SATISFACTORILY COMPLETED IN ACCORDANCE WITH REQUIREMENTS OF THIS CODE, A GRADING CERTIFICATE COVERING SUCH WORK SHALL BE ISSUED TO THE OWNER BY THE SUPERINTENDENT OF BUILDING. UPON THE OWNER'S REQUEST, A SEPARATE CERTIFICATE WILL BE ISSUED FOR EACH LOT FOR WHICH BUILDING PERMITS HAVE BEEN ISSUED OR APPLIED FOR PRIOR TO THE COMPLETION OF THE GRADING.
28. YARDAGE QUANTITIES FOR PERMIT PURPOSES:

CUT 6,438 CY FILL 6,408 CY EXPORT 30 CY
29. THE CONTRACTOR SHALL OBTAIN A PERMIT FROM CALIFORNIA DIVISION OF INDUSTRIAL SAFETY FOR THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE FIVE FEET OR DEEPER. SHEETING, SHORING, AND BRACING FOR THE TRENCH EXCAVATION SHALL CONFORM TO THE REQUIREMENTS OF "CONSTRUCTION SAFETY ORDERS," TITLE 8, DIVISION OF INDUSTRIAL SAFETY, STATE OF CALIFORNIA.
30. A COPY OF THE GRADING PERMIT AND APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
31. THE CONTRACTOR SHALL PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS PROJECT. A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
32. ALL PROPERTY CORNERS SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION/GRADING.
33. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS.
34. OFFSITE DISPOSAL OF EXCAVATION MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN ITS BID. THE CONTRACTOR SHALL HOLD THE CITY OR ITS AGENTS HARMLESS AS A RESULT OF ANY CLAIMS ARISING FROM ACTIONS IN ROUTE OR AWAY FROM THE SITE.
35. WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL PROVISIONS OF THE BUILDING CODE (EXCAVATION AND FILLS).
36. FILL PLACEMENT AREAS SHALL BE INSPECTED AND APPROVED BY THE CONSULTANT GEOLOGIST AND SOILS ENGINEER PRIOR TO PLACEMENT OF ANY FILL.
37. A REGISTERED CIVIL ENGINEER SHALL SUBMIT TO THE CITY WRITTEN CERTIFICATION OF COMPLETION IN ACCORDANCE WITH THE APPROVED GRADING PLAN. CERTIFICATIONS SHALL BE TO LINE, GRADE, ELEVATION AND LOCATION OF CUT AND FILL SLOPES.
38. GRADING SHALL BE DONE UNDER THE SUPERVISION OF A SOILS ENGINEER WHO SHALL CERTIFY THAT ALL FILL HAS BEEN PROPERLY PLACED AND WHO SHALL SUBMIT A FINAL COMPACTION REPORT FOR ALL FILLS OVER ONE FOOT DEEP.
39. A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR SHALL SUBMIT CERTIFICATION OF PAD ELEVATION WHERE SPECIFIC ELEVATIONS ARE REQUIRED. THE ELEVATION WITH RESPECT TO MEAN SEA LEVEL SHALL BE GIVEN. IF AN ELEVATION WITH RESPECT TO ADJACENT GROUND SURFACE IS REQUIRED THE ACTUAL DISTANCE ABOVE THE ADJACENT GROUND SHALL BE GIVEN.
40. APPROXIMATE DATE OF: BEGINNING OPERATION MAY 2013, COMPLETION DECEMBER 2013. NO WORK WILL BE CONDUCTED WITHIN THE BASEBALL FIELDS BETWEEN JANUARY AND JUNE.
41. A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (OCTOBER 1 TO APRIL 15). THE CONTRACTOR SHALL PROVIDE PROTECTIVE MEASURES AND TEMPORARY DRAINAGE FACILITIES TO PROTECT ADJOINING PROPERTIES AND THE PUBLIC RIGHT-OF-WAY FROM MUD, SILT AND STORM WATERS ORIGINATING ON OR DIVERTED FROM THE CONSTRUCTION SITE. CONSTRUCT TEMPORARY DESILTING BASIN FOR TRAPPING MUD, DEBRIS, ETC., AND TO CLEAR THE WATER PRIOR TO DEWATERING BY ANY ACCEPTABLE MEANS LIKE PUMPING. WHEN WATER HAS BEEN CLEARED, PUMPING CAN BE MADE DIRECTLY INTO THE EXISTING PUBLIC STORM DRAIN SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THE SAID STORM DRAIN AFTER COMPLETION OF DEWATERING. DEWATERING OR PUMPING DIRECTLY, OR SHEET FLOW OVER PUBLIC SIDEWALK AND ROAD SURFACE, WILL NOT BE PERMITTED. DEWATERING OR PUMPING INTO THE CITY OF TORRANCE OR LACPCD STORM DRAIN SYSTEM MAY REQUIRE PERMITS FROM SAID AGENCIES. THEY SHALL BE CONSULTED BEFORE DOING THE WORK.
42. THIS DRAWING AND THE DATA HEREON ARE HEREBY MADE A PART OF THE SPECIFICATION. APPROVAL OF THIS PLAN BY THE CITY DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATIONS OR THE EXISTENCE OR NONEXISTENCE OF ANY UNDERGROUND UTILITY, PIPE, OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR IS REQUIRED TO MAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINE NOT ON RECORD OR NOT SHOWN ON THESE PLANS. ALL UTILITY LINES AND STRUCTURES THAT MAY BE DAMAGED ON ACCOUNT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE CITY.
43. ANY MODIFICATIONS OF OR CHANGES IN APPROVED GRADING PLANS MUST BE APPROVED BY THE BUILDING OFFICIAL.

ESTIMATED EARTHWORK QUANTITIES

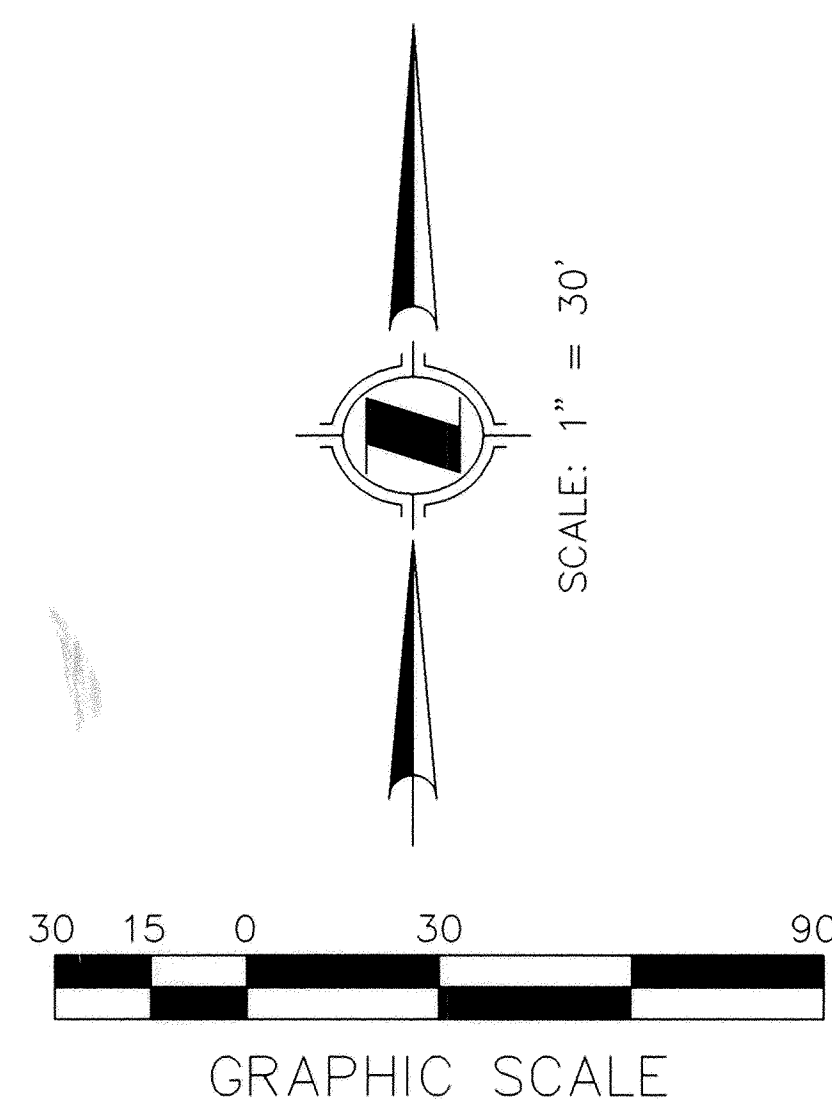
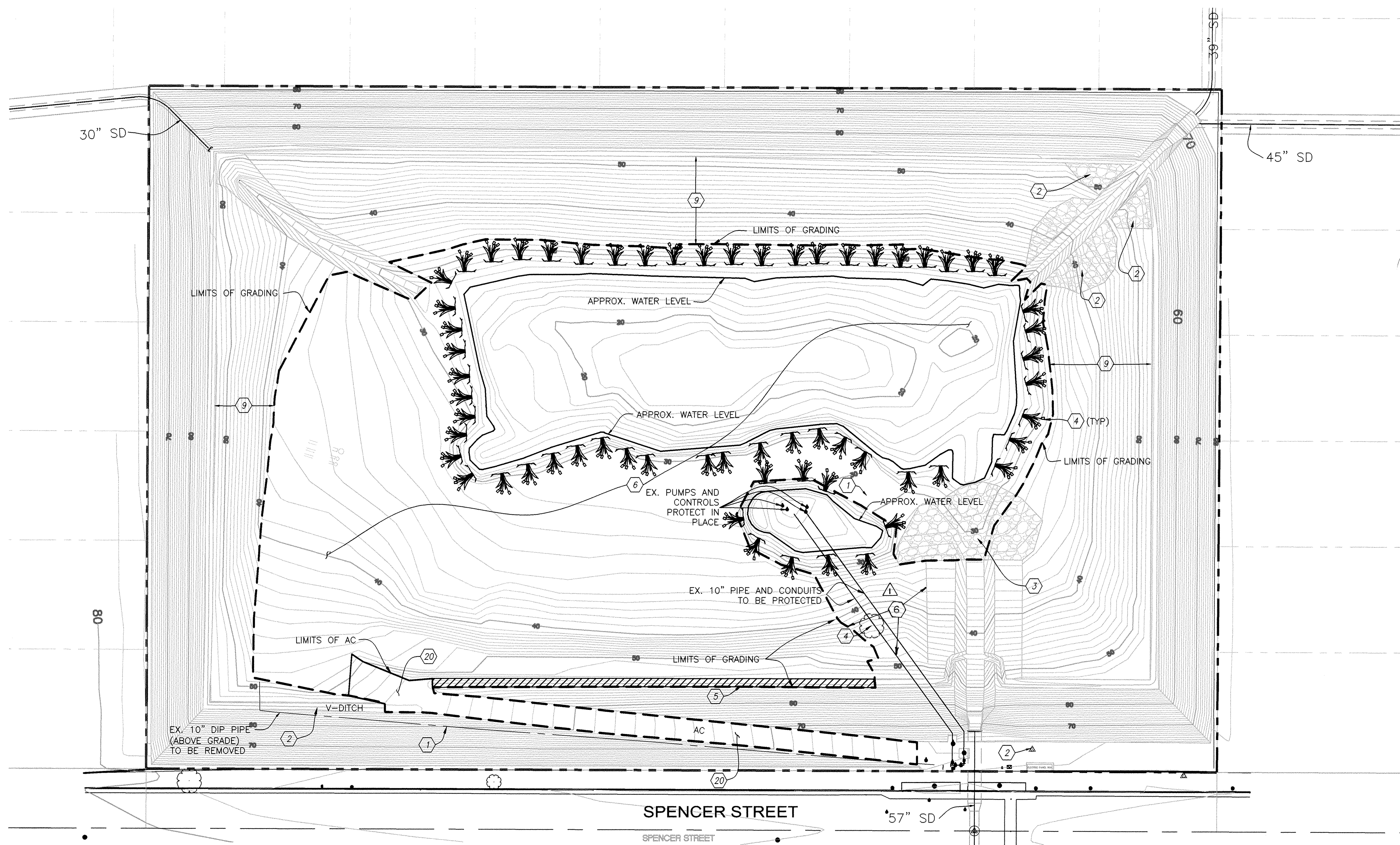
EARTHWORK QUANTITIES	AMIE	HENRIETTA	ENTRADERO	
IMPORT (FILL)	9,153 CY	2,928 CY	3,217 CY	
EXPORT (CUT)	2,856 CY	8,470 CY	4,002 CY	
	6,297 CY (IMPORT)	5,542 CY (EXPORT)	785 CY (EXPORT)	
SUB-TOTALS				6,438 CY (EXPORT) 6,408 CY (IMPORT)
TOTALS				30 CY (EXPORT)

1. IT IS THE GRADING CONTRACTOR'S RESPONSIBILITY TO REVIEW THE GRADING PLANS AND SOILS REPORT THOROUGHLY PRIOR TO SITE MOBILIZATION. IT IS ALSO THE GRADING CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CIVIL AND SOILS ENGINEERS IF ONSITE DISCREPANCIES ARE OBSERVED THAT WOULD AFFECT THE EARTHWORK QUANTITIES.
2. THE EXISTING TOPOGRAPHY AS DELINEATED ON THESE DRAWINGS SHALL BE UTILIZED AS THE BASIS FOR ALL EARTHWORK COMPUTATIONS. SAID TOPOGRAPHY SHALL BE PRESUMED TO BE ACCEPTABLE TO ALL INTERESTED PARTIES UNLESS A DEVIATION IS FOUND PRIOR TO THE START OF GRADING IN ANY SPECIFIC AREAS. ANY DEVIATION SO DETERMINED SHALL BE PROMPTLY TRANSMITTED TO ALL INTERESTED PARTIES.
3. THE CONTRACTOR IS REQUIRED TO ESTIMATE THE QUANTITIES OF GRADING WORK TO BE DONE AND INCLUDE ALL COSTS THEREFROM IN HIS BID, AS NO ADDITIONAL ALLOWANCE WILL BE MADE WITHOUT PRIOR CONSENT FROM THE OWNER.
4. OVER-EXCAVATION AND/OR EXCESS BACKFILLING OR DUPLICATION OF GRADING ACTIVITIES IS NOT A BASIS FOR ADDITIONAL COMPENSATION. THIS ALSO APPLIES WHERE MATERIAL IS TO BE REMOVED AND REPLACED TO REDUCE MOISTURE CONTENT.
5. OFF-SITE DISPOSAL OF EXCAVATION MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN HIS BID. THE CONTRACTOR SHALL HOLD THE OWNER AND ENGINEER HARMLESS AS A RESULT OF ANY CLAIMS ARISING FROM ACTIONS ENROUTE OR AWAY FROM THE SITE. EXCAVATION MATERIALS SHALL BE DISPOSED OF AT A ENVIRONMENTALLY CLEARED FILL LOCATION.
6. EARTH VOLUMES SHOWN HEREON ARE ESTIMATES BASED UPON THE GEOTECHNICAL ANALYSIS PERFORMED BY THE NAMED SOILS ENGINEER AND TOPOGRAPHIC SURVEY OF THE EXISTING GROUND SURFACE AT THE TIME OF PLAN PREPARATION. EARTHWORK VOLUMES ARE COMPUTED BY METHODS COMMONLY USED IN STANDARD ENGINEERING PRACTICE, AND ARE INTENDED FOR USE IN ESTABLISHING GOVERNING AGENCY FEES. ACTUAL FIELD CONDITIONS MAY VARY FROM OBSERVED OR MEASURED CONDITIONS AT THE TIME OF PLAN PREPARATION. EARTHWORK QUANTITIES MAY VARY AS A RESULT.
7. THE QUANTITIES FOR THESE PLANS ARE BASED UPON 0% SHRINKAGE AND 0% SUBSIDENCE. SHRINKAGE PERCENTAGE IS SHOWN FOR REFERENCE ONLY. ACTUAL SHRINKAGE VOLUMES MAY VARY CONSIDERABLY.

REQUIRED INSPECTION

1. A PRE-GRADING MEETING SHALL BE SCHEDULED 48 HOURS PRIOR TO START OF GRADING WITH THE FOLLOWINGS PEOPLE PRESENT: OWNER, GRADING CONTRACTOR, DESIGN CIVIL ENGINEER, SOILS ENGINEER, GEOLOGIST, CITY GRADING ENGINEER OR THEIR REPRESENTATIVES. REQUIRED FIELD INSPECTIONS WILL BE OUTLINED AT THE MEETING.
2. A PRE-PAVING MEETING SHALL BE SCHEDULED 48 HOURS PRIOR TO START OF THE SUB-GRADE PREPARATION FOR THE PAVING WITH THE FOLLOWING PEOPLE PRESENT: OWNER, PAVING CONTRACTORS, DESIGN CIVIL ENGINEER, SOILS ENGINEER, CITY GRADING ENGINEER OR THEIR REPRESENTATIVES. REQUIRED FIELD INSPECTIONS WILL BE OUTLINED AT THE MEETING.

GRADING NOTES : C-10



DEMOLITION NOTES:


- 1 CUT, CAP AND REMOVE ALL INDICATED EXISTING UTILITIES FROM THE SITE AND DISPOSE OF PROPERLY. PATCH CONCRETE AS REQUIRED.
- 2 PROTECT IN PLACE.
- 3 REMOVE EXISTING RIPRAP AS REQUIRED FOR PROPOSED GRADING PLAN PER SHEET C-14.
- 4 REMOVE EXISTING PLANTS.
- 5 REMOVE PORTION OF EXISTING CONCRETE DITCH AS REQUIRED FOR PROPOSED GRADING PLAN PER SHEET C-14.
- 6 CLEAR AND GRUB TO LIMITS AS SHOWN.
- 8 OMITTED.
- 9 ICE PLANT AND NON-NATIVES TO BE REMOVED.
- 11 OMITTED.
- 13 OMITTED.
- 20 REMOVE EXISTING AC.

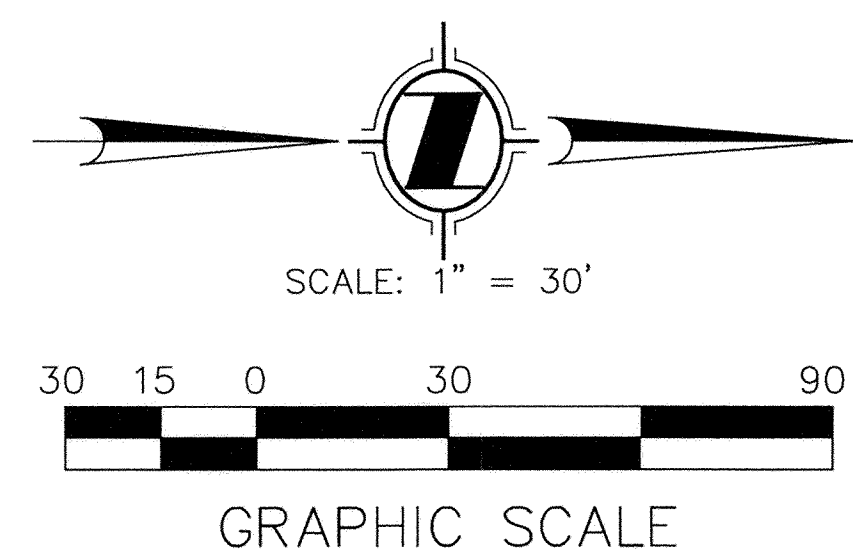
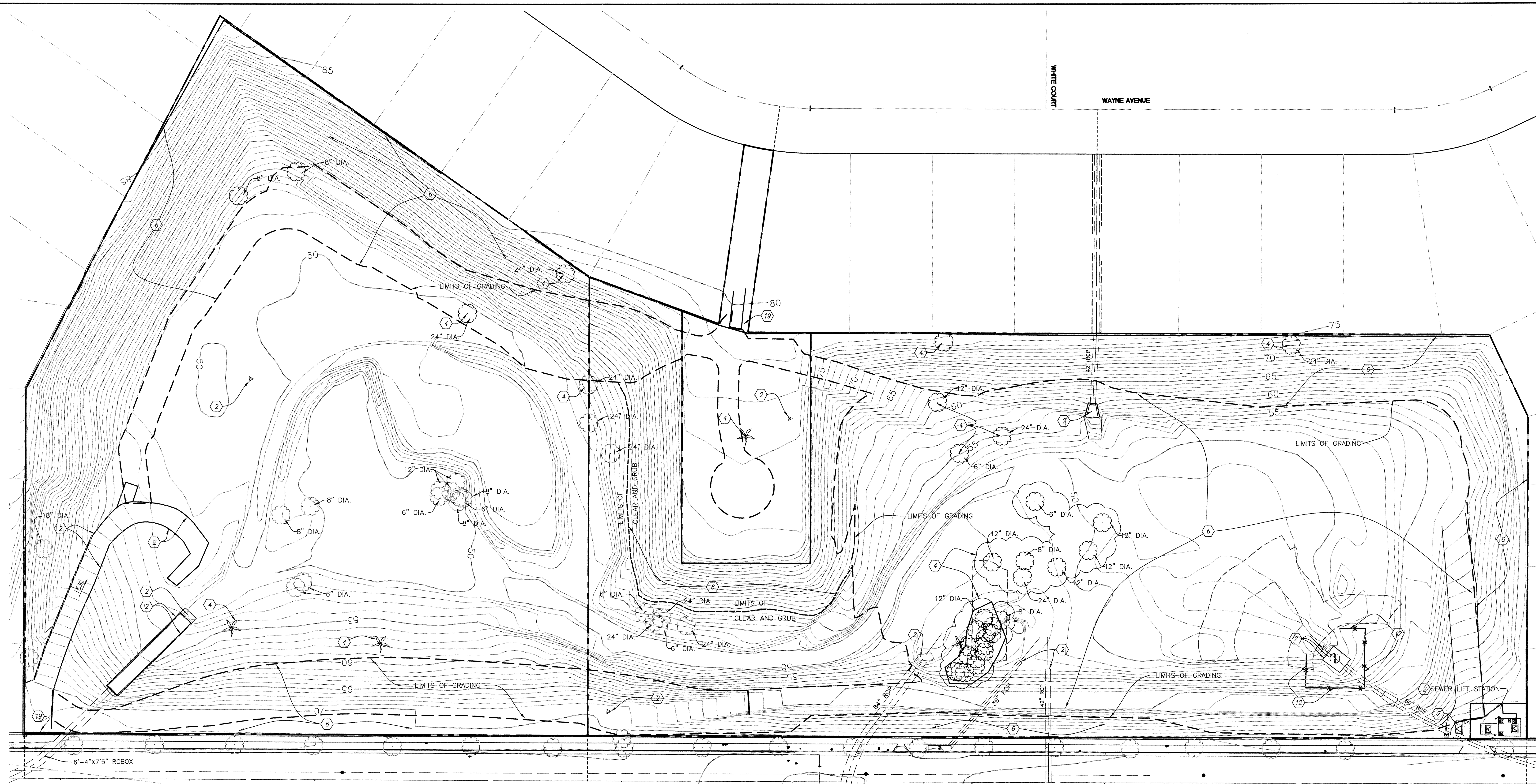
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DEMOLITION PLAN AND NOTES - AMIE BASIN : C-11

REV.	DATE	DESCRIPTION	BY	CHECKED	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT			
1	1/15/14	ADDED NOTE 6	VP	J.C.D.	APPROVED:			
					DRAWN: ALF	 1/22/14		
					DESIGNED: C.P.			
					PROJECT ENGINEER: VIKRAM BAPNA	CRAIG BILEZERIAN CITY ENGINEER R.C.E. NO. 55339 DATE EXP. 12/31/14		
					DIVISION ENGINEER: JOHN DETTLE	SCALE: AS SHOWN SHEET 12 OF 111 PLAN NO. SD - 500		



DEMOLITION NOTES:

- ② PROTECT IN PLACE.
- ④ REMOVE EXISTING PLANTS.
- ⑥ CLEAR AND GRUB TO LIMITS AS SHOWN.
- ⑫ REMOVE EXISTING CHAIN LINK FENCE.
- ⑰ REMOVE FENCE AND GATE.

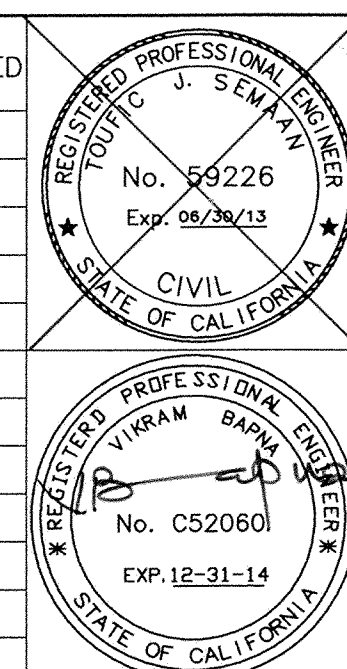
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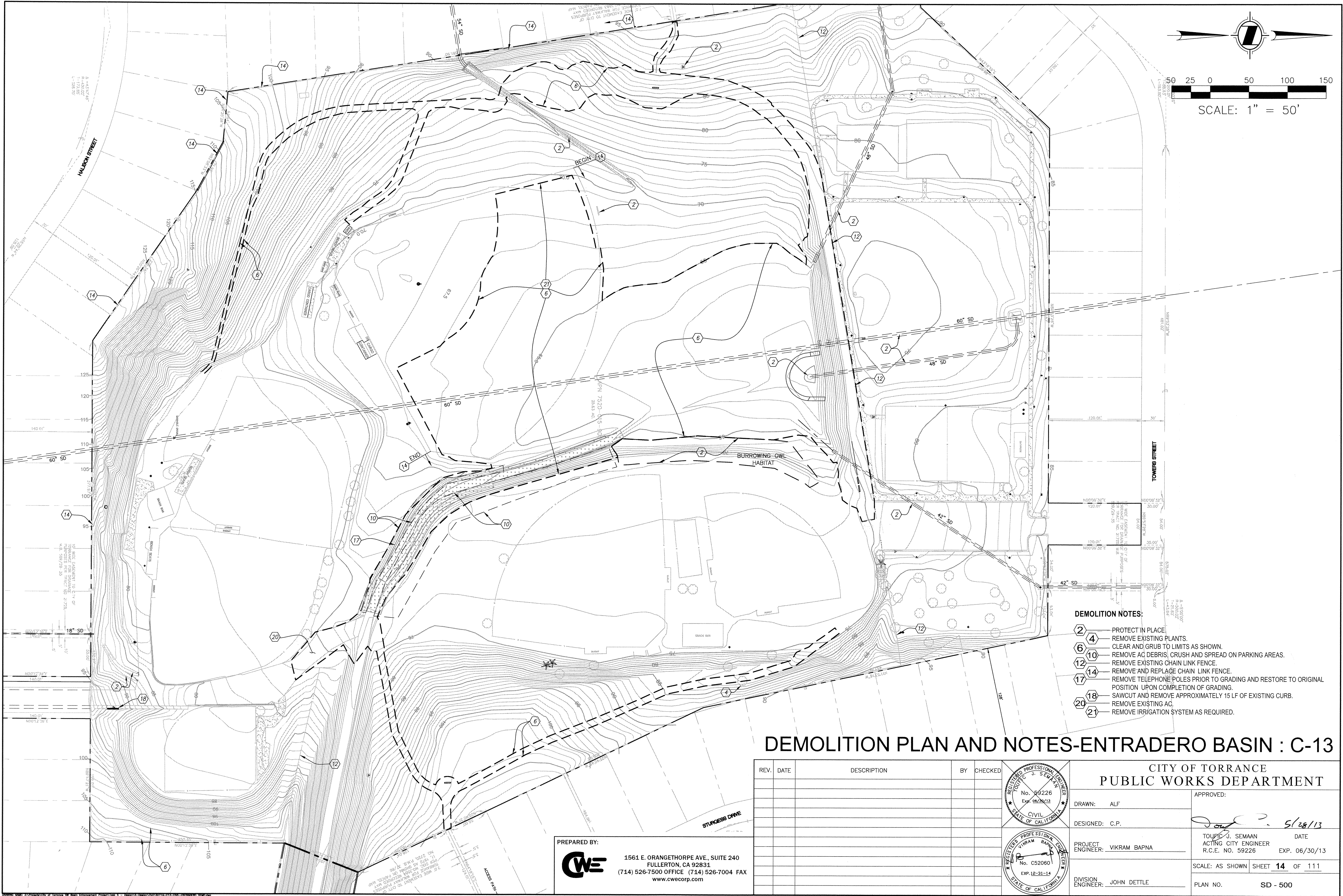
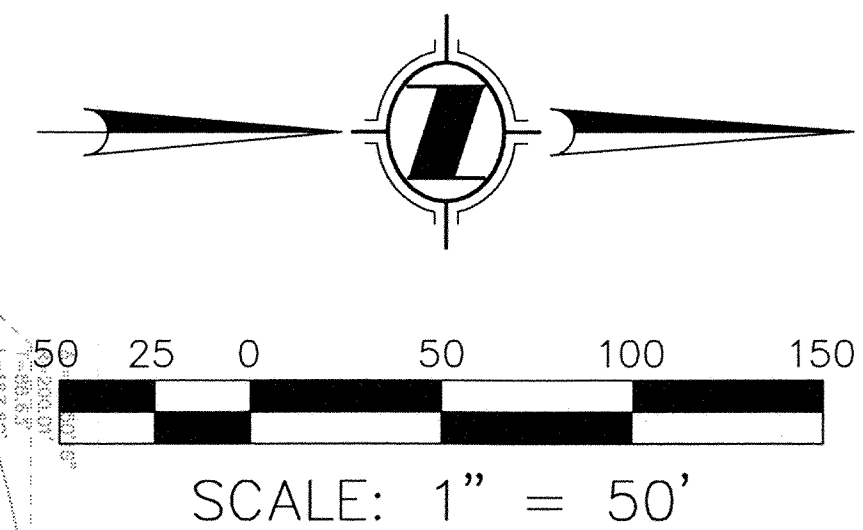
DEMOLITION PLAN AND NOTES - HENRIETTA BASIN : C-12

REV.	DATE	DESCRIPTION	BY	CHECKED



CITY OF TORRANCE
PUBLIC WORKS DEPARTMENT

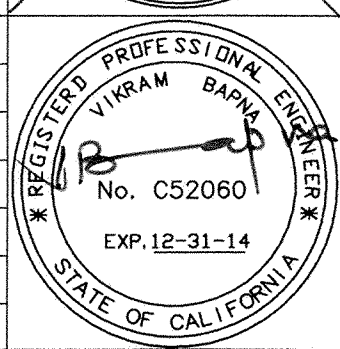
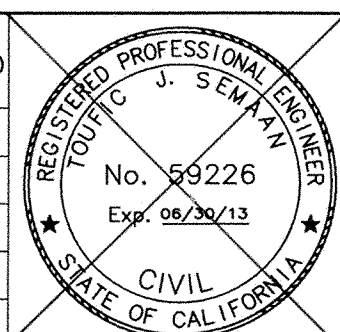
DRAWN: ALF	APPROVED:
DESIGNED: C.P.	 5/28/13
PROJECT ENGINEER: VIKRAM BAPNA	T. J. SEMANN ACTING CITY ENGINEER R.C.E. NO. 59226
DIVISION ENGINEER: JOHN DETTLE	DATE EXP. 06/30/13
SCALE: AS SHOWN	SHEET 13 OF 111
PLAN NO.	SD - 500



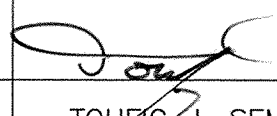
- DEMOLITION NOTES:**
- 2 - PROTECT IN PLACE.
 - 4 - REMOVE EXISTING PLANTS.
 - 6 - CLEAR AND GRUB TO LIMITS AS SHOWN.
 - 10 - REMOVE AC DEBRIS, CRUSH AND SPREAD ON PARKING AREAS.
 - 12 - REMOVE EXISTING CHAIN LINK FENCE.
 - 14 - REMOVE AND REPLACE CHAIN LINK FENCE.
 - 17 - REMOVE TELEPHONE POLES PRIOR TO GRADING AND RESTORE TO ORIGINAL POSITION UPON COMPLETION OF GRADING.
 - 18 - SAWCUT AND REMOVE APPROXIMATELY 15 LF OF EXISTING CURB.
 - 20 - REMOVE EXISTING AC.
 - 21 - REMOVE IRRIGATION SYSTEM AS REQUIRED.


DEMOLITION PLAN AND NOTES-ENTRADERO BASIN : C-13

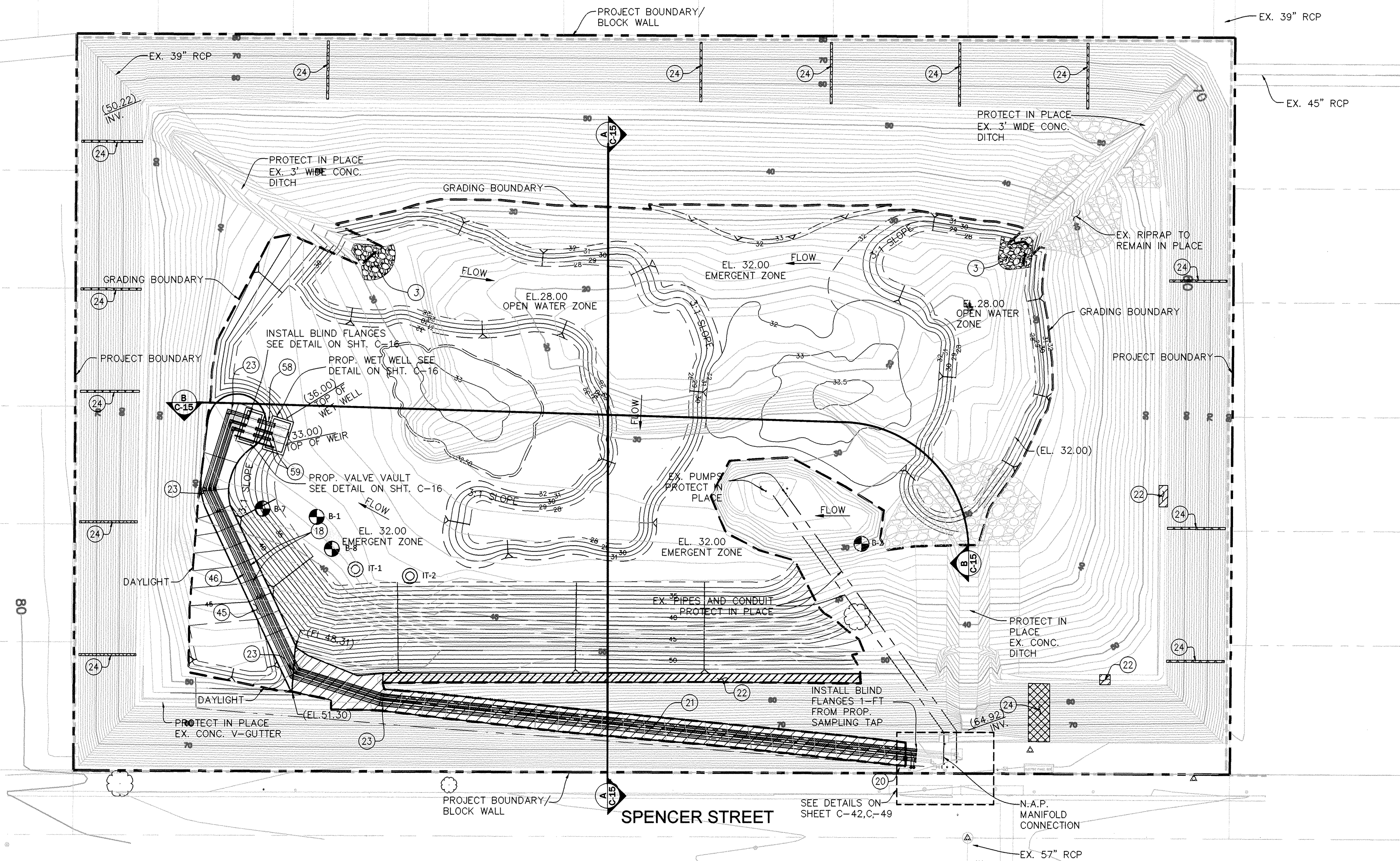
REV.	DATE	DESCRIPTION	BY	CHECKED



CITY OF TORRANCE
PUBLIC WORKS DEPARTMENT

DRAWN: ALF	APPROVED:
DESIGNED: C.P.	 5/28/13
PROJECT ENGINEER: VIKRAM BAPNA	TOUFIG J. SEMAAN ACTING CITY ENGINEER R.C.E. NO. 59226
DIVISION ENGINEER: JOHN DETTLE	DATE EXP. 06/30/13
PLAN NO. SD - 500	SCALE: AS SHOWN SHEET 14 OF 111

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CONSTRUCTION NOTES:

- 3 — CONSTRUCT RIPRAP PER DETAIL ON SHEET C-39.
- 18 — INSTALL (2) 10" D.I.P. FORCE MAINS AND BACKFILL PER CITY OF TORRANCE STD. NO. T-701 (ALL RESTRAINED JOINTS).
- 20 — INSTALL WATER QUALITY MONITORING STATION PER DETAILS ON SHEET C-42.
- 21 — RECONSTRUCT 4" A.C. OVER 4" C.M.B. EXISTING ACCESS ROAD.
- 22 — EXISTING V-GUTTER TO BE REMOVED AND REPLACED IN KIND.
- 23 — CONSTRUCT CONCRETE ENCASEMENT OVER FORCE MAIN ELBOWS WITH ALL RESTRAINED JOINTS.
- 24 — STRUCTURAL CRACK REPAIR BY EPOXY INJECTION (ACI RAP-1) ON CONCRETE SLOPE LINER PER ASTM C 881.
- 45 — CONSTRUCT 4" C.M.B. ACCESS ROAD PER DETAIL ON SHEET C-37.
- 46 — INSTALL 14" D.I.P. FORCE MAIN AND BACKFILL PER CITY OF TORRANCE STD. NO. T-701 (ALL RESTRAINED JOINTS).

PUMP CONSTRUCTION NOTES:

- 58 — INSTALL 7.6' OF TEMPORARY 14" PVC PIPE AND FLANGES TO MAINTAIN ALIGNMENT BETWEEN VALVE VAULT AND WET WELL.
- 59 — INSTALL 7.6' OF TEMPORARY 10" PVC PIPE AND FLANGES TO MAINTAIN ALIGNMENT BETWEEN VALVE VAULT AND WET WELL.

LEGEND

- GRADING BOUNDARY — WORK LIMIT
- 4" A.C. OVER 4" C.M.B. ACCESS ROAD
- B-8 APPROXIMATE BORING LOCATION (SEE SHEET B-1 FOR DETAIL)
- IT-1 APPROXIMATE INFILTRATION TEST LOCATION (SEE SHEET B-1 FOR DETAIL)

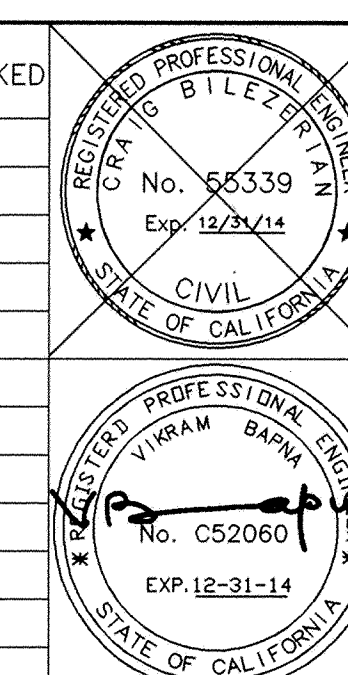
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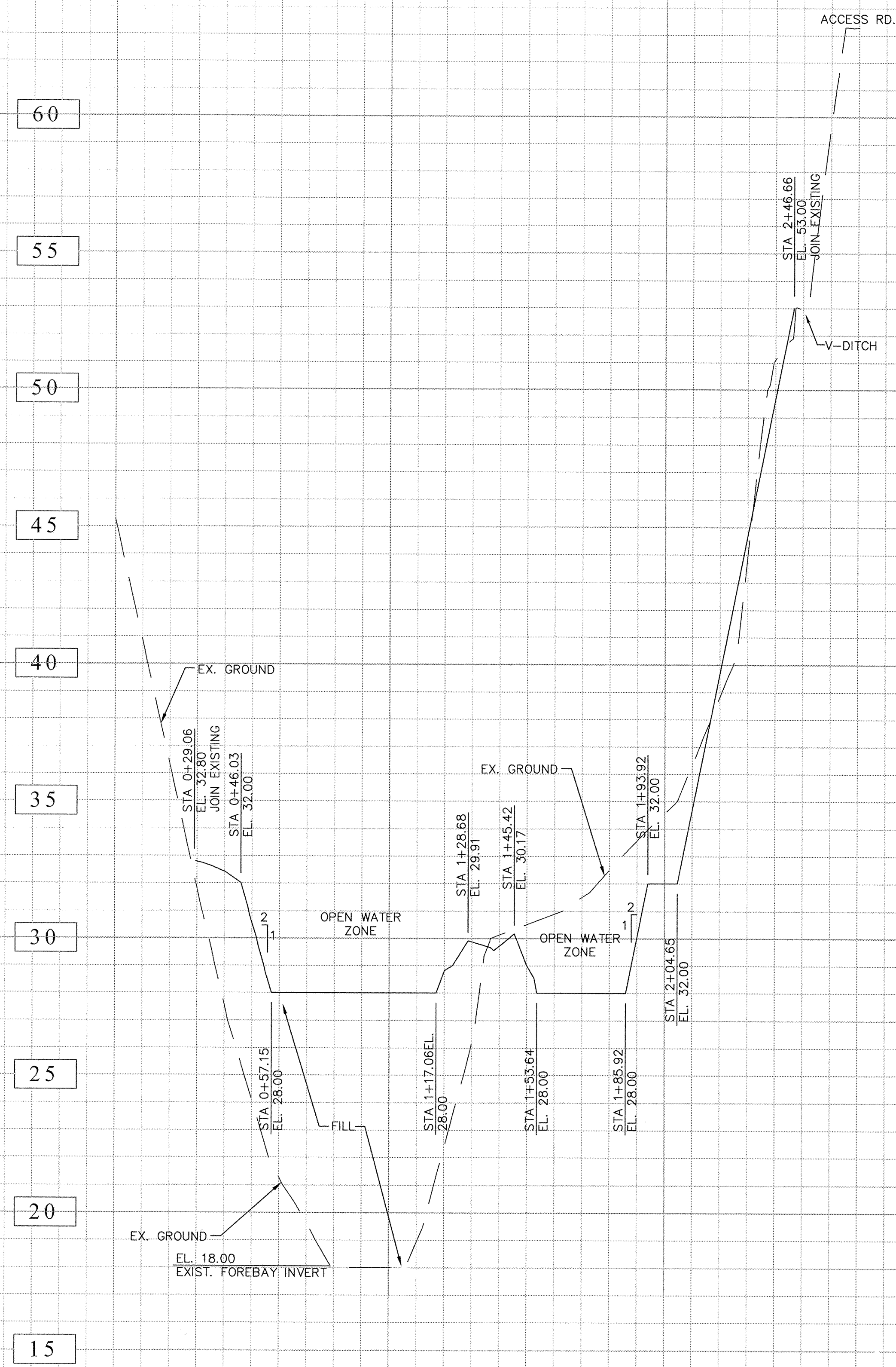
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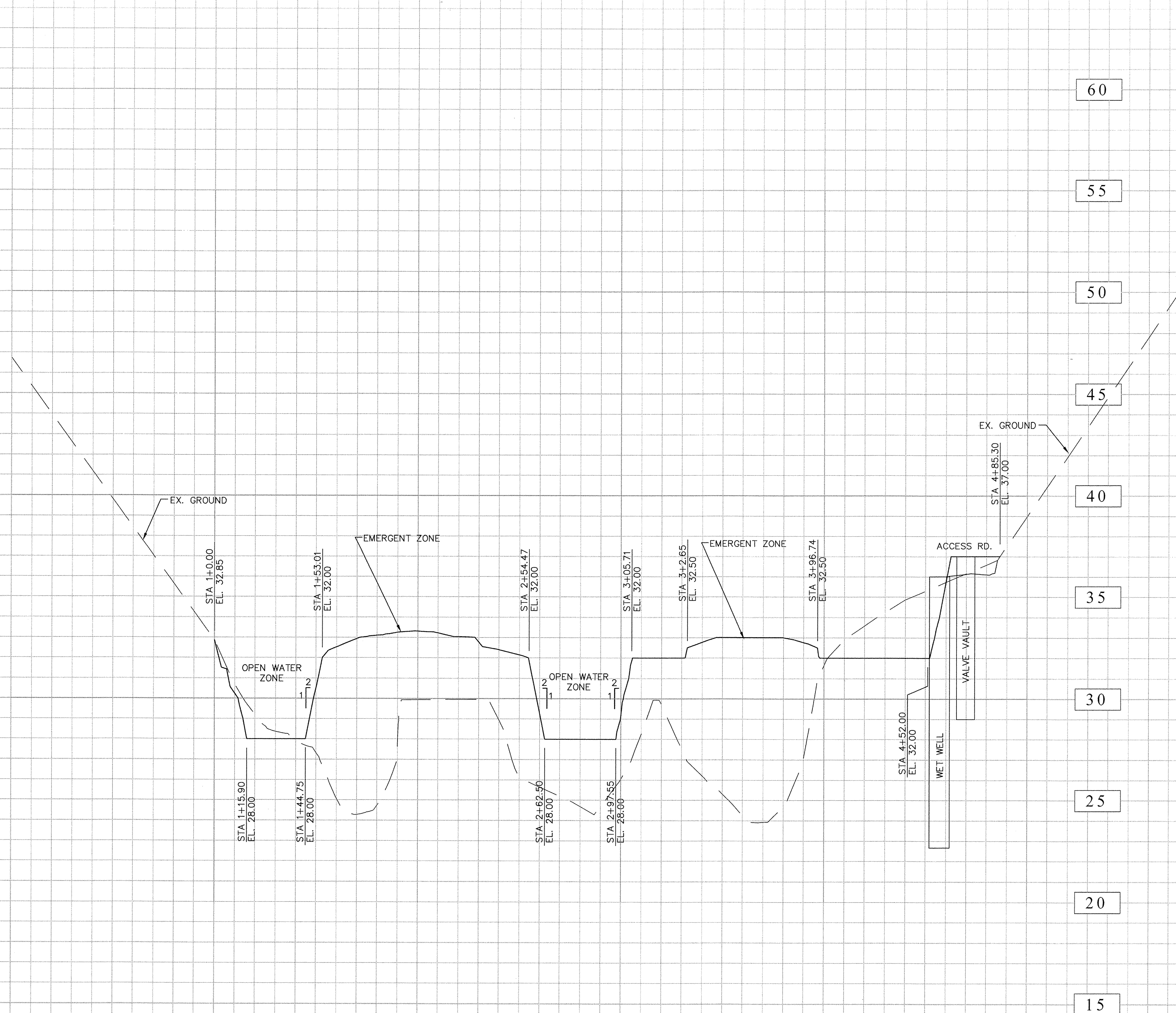
GRADING PLAN - AMIE BASIN : C-14



CITY OF TORRANCE PUBLIC WORKS DEPARTMENT			
DRAWN: ALF	APPROVED: <i>[Signature]</i> 1/22/14		
DESIGNED: C.P.	CRAIG BILEZERIAN CITY ENGINEER R.C.E. NO. 55339 EXP. 12/31/14		
PROJECT: VIKRAM BAPNA	SCALE: AS SHOWN SHEET 15 OF 111		
DIVISION ENGINEER: JOHN DETTLE	PLAN NO. SD - 500		



SCALE:
1" = 30' (HOR.)
1" = 3' (VER.)






SCALE:
1" = 30' (HOR.)
1" = 3' (VER.)

2 3
SECTION A-A (SHEET C-14)

3
SECTION B-B (SHEET C-14)

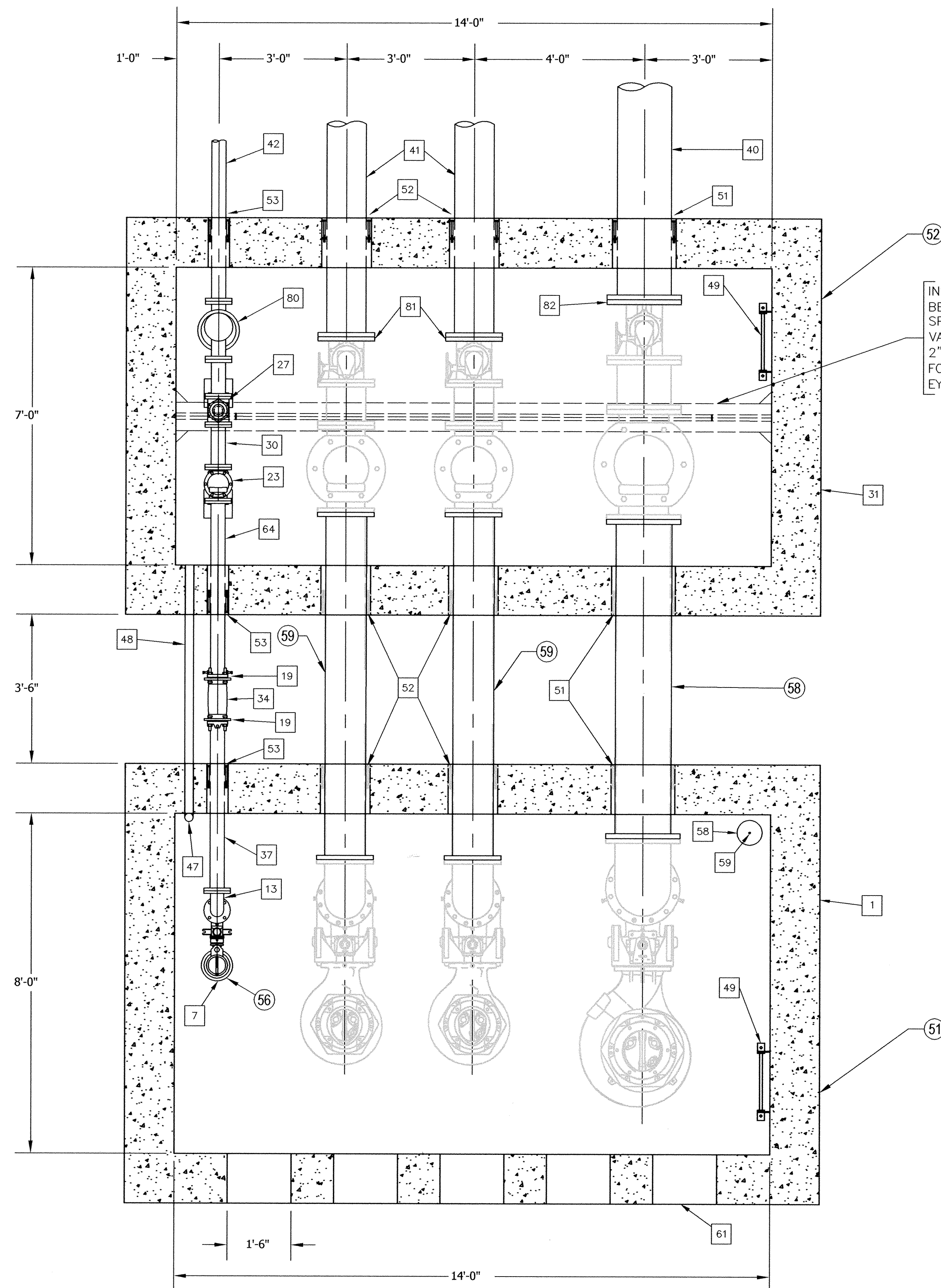
PROFILE AND CROSS SECTIONS - AMIE BASIN : C-15

REV.	DATE	DESCRIPTION	BY	CHECKED	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT	
						APPROVED:  DATE <u>5/28/13</u>
					DRAWN: T.P. DESIGNED: T.P.	PROJECT ENGINEER: <u>VIKRAM BAPNA</u> SCALE: _____ SHEET <u>16</u> OF <u>111</u>
						DIVISION ENGINEER: <u>JOHN DETTLE</u> PLAN NO. <u>SD-500</u>

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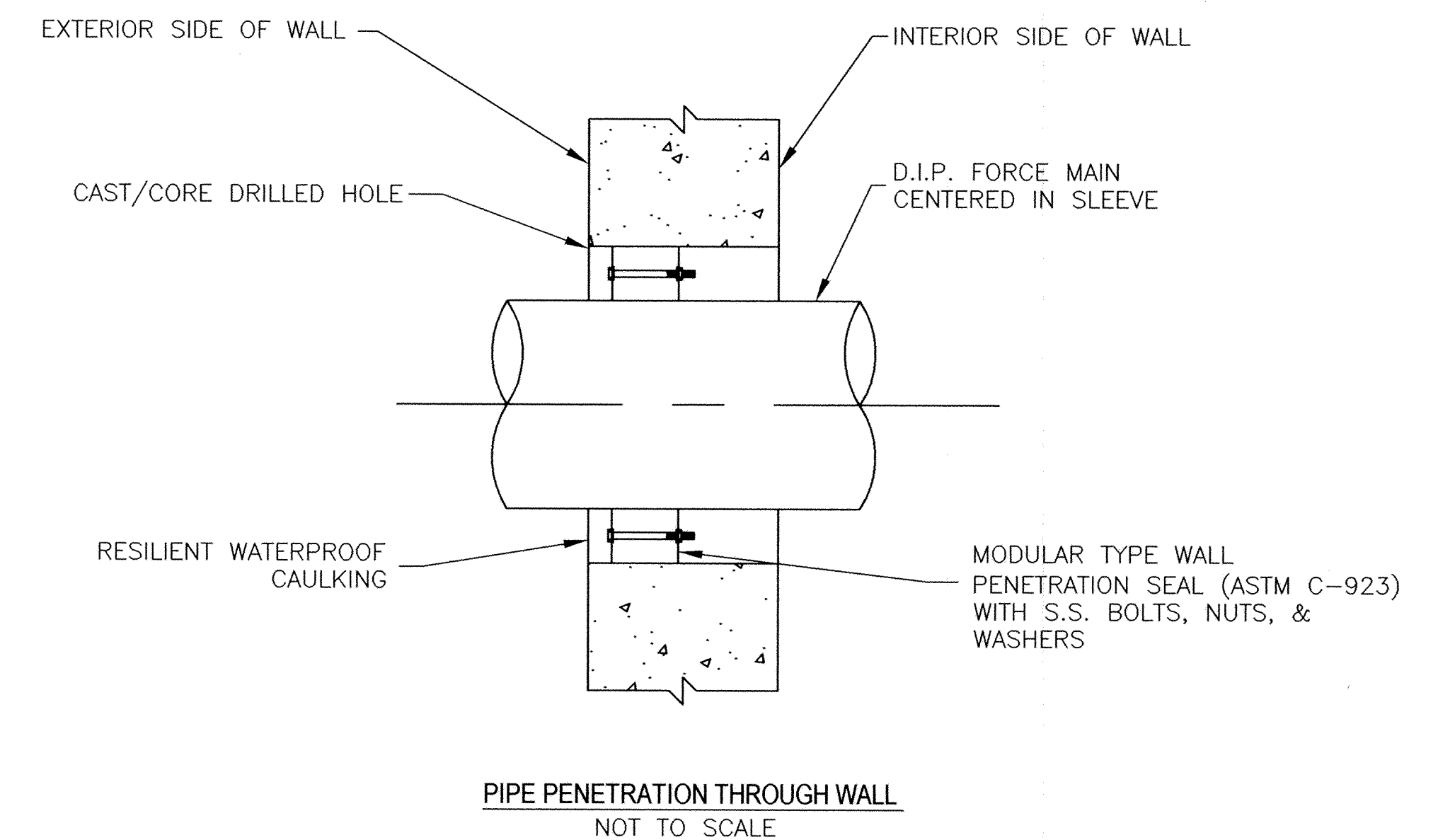
PARTS LIST LOCATED
ON SHEET C-19

GENERAL NOTES

- ALL CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF $F_c = 4,000$ PSI (28 DAY STRENGTH) EXCEPT AS NOTED.
- REINFORCING STEEL SHALL CONFORM TO A.S.T.M. 615-80, GRADE 60.
- MINIMUM CLEAR COVER SHALL BE 2" UNLESS OTHERWISE NOTED.
- DIMENSIONS FROM FACE OF CONCRETE TO REINFORCING BARS ARE CLEAR DISTANCES.
- DIMENSIONS FOR BAR SPACING ARE CENTER TO CENTER.
- ALL LAPS SHALL BE 30 BAR DIAMETERS UNLESS OTHERWISE NOTED.
- BEDDING MATERIAL SHALL BE AT LEAST 1.0 FOOT THICK LAYER OF $\frac{3}{4}$ INCH DIAMETER CRUSHED ROCK.
- ALL WET WELL JOINTS SHALL BE WATERTIGHT, O-RING/FORSHEDA AND MASTIC BUTYL WRAP SEALS.
- ALL BOLTS SHALL BE STAINLESS STEEL TYPE 304L WITH STAINLESS STEEL HARDWARE.
- ALL TAPS INTO FITTINGS SHALL BE MADE INTO A BOSS.
- EDGE OF VALVE VAULT SHALL BE LOCATED 3.5 FEET FROM THE WET WELL. IF VALVE VAULT IS PLACED ON EXCAVATED MATERIALS, BACKFILL SHALL BE COMPACTED IN 8" LOOSE LIFTS TO 95% STANDARD PROCTOR DENSITY PRIOR TO INSTALLATION OF VALVE VAULT.
- BACKFILL SHALL BE DONE IN ACCORDANCE WITH SPECIFICATIONS.
- PUMP STATION AND ACCESS ROAD PLAN VIEW ARE LOCATED ON SHEET C-14.
- PARTS LIST FOR ALL COMPONENTS OF THE PUMP STATION AND VALVE VAULT IS LOCATED ON SHEET C-19.
- INSTALL ALL PIPE AND FITTINGS PER SIZE AND DIAMETER PROVIDED IN PARTS LIST ON SHEET C-19 AND IN THE SPECIFICATIONS.
- INTERIOR OF VAULTS SHALL HAVE CRYSTALLINE WATERPROOF COATING.
- ALL METAL PIPES EXPOSED TO SOIL SHALL BE WRAPPED WITH 8 MIL POLYETHYLENE WRAP.
- ALL PIPE SPOOLS TO BE FIELD FITTED.
- ALL PIPE SPOOL LENGTHS IN PARTS LIST ARE APPROXIMATE.

CONSTRUCTION NOTES:

- INSTALL 8' X 14' X 13'-4" DEEP REINFORCED CONCRETE WET WELL PER PLAN ON SHEET C-14.
- INSTALL 7' X 14' X 8' DEEP REINFORCED CONCRETE VALVE VAULT PER PLAN ON SHEET C-14.
- INSTALL 1 - 15HP 60Hz SUBMERSIBLE PUMP #4 (PART #7) WITH A DESIGN PUMPING RATE = 59 GPM AT A TDH = 201 FEET.
- INSTALL 7.6' TEMPORARY 14" PVC PIPE AND FLANGES TO MAINTAIN ALIGNMENT BETWEEN WET WELL AND VALVE VAULT.
- INSTALL 7.6' TEMPORARY 10" PVC PIPE AND FLANGES TO MAINTAIN ALIGNMENT BETWEEN WET WELL AND VALVE VAULT.



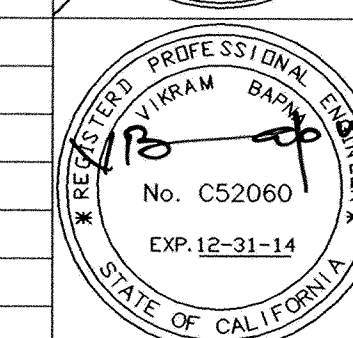
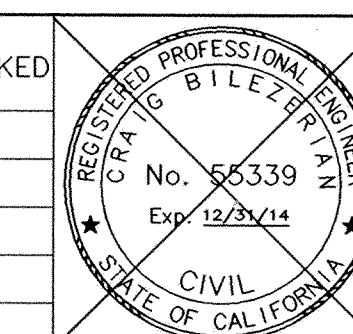
AMIE BASIN PUMP STATION PLAN : C-16

REV.	DATE	DESCRIPTION	BY	CHECKED	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT	
					DRAWN: ALF	APPROVED:
					DESIGNED: C.P.	<i>S. B.</i> 1/22/14
					PROJECT ENGINEER: VIKRAM BAPNA	CRAIG BILEZERIAN CITY ENGINEER R.C.E. NO. 55339
					DIVISION ENGINEER: JOHN DETTLE	SCALE: AS SHOWN SHEET 17 OF 111
						PLAN NO. SD - 500

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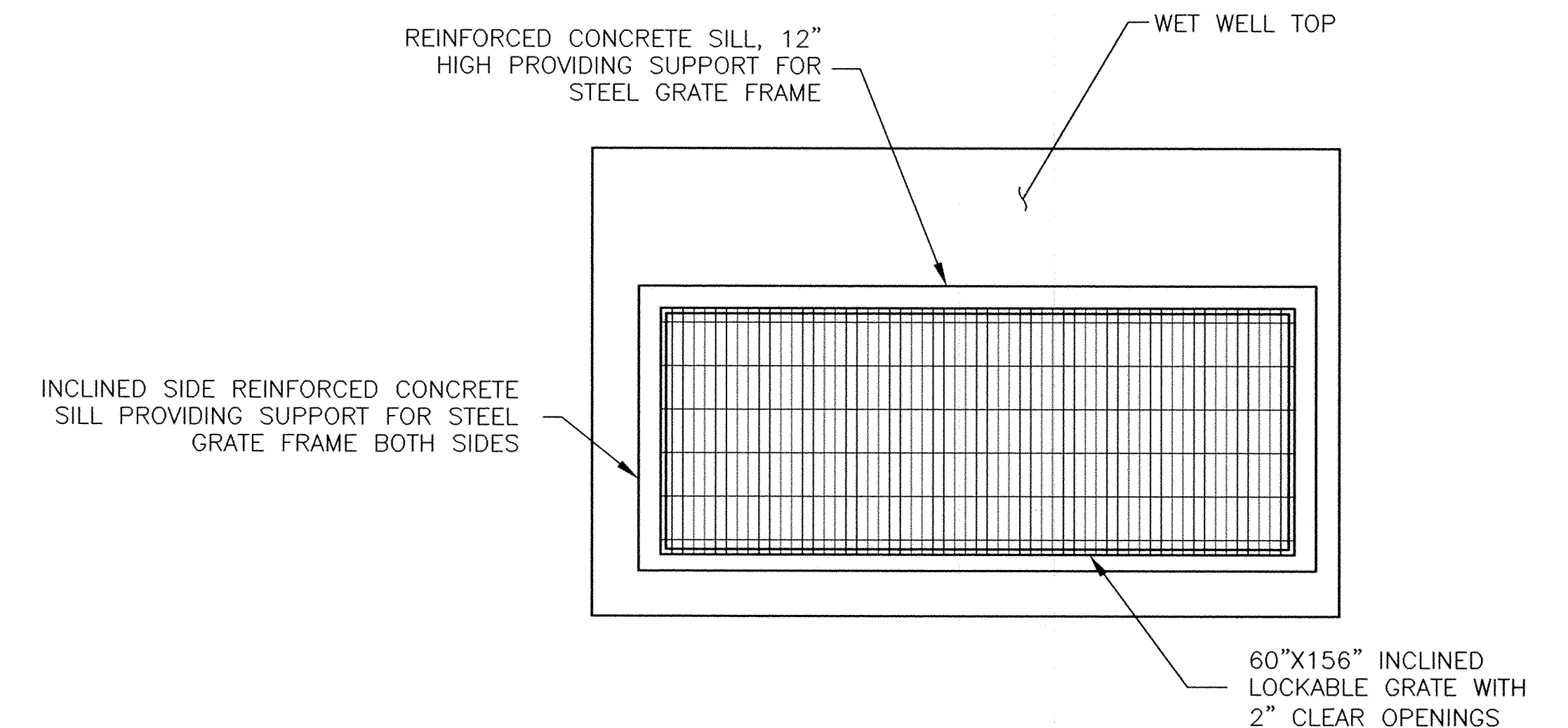
4-ALUMINUM HATCH DOORS WITH
— CLEAR OPENING OF 42"X84" IN THE
CONFIGURATION SHOWN. SEE U.S.F.
SHOP DRAWING PER SPECIFICATIONS.

VALVE VAULT PLAN

ACCESS HATCH CONFIGURATION (N.T.S.)
PER SPECIFICATIONS

PROFILE WET WELL




N.T.S.



WET WELL PLAN

INCLINED GRATE (N.T.S.)

AMIE BASIN PUMP STATION PROFILE : C-17

REV.	DATE	DESCRIPTION	BY	CHECKED	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT		
						APPROVED:	
					DRAWN: ALF	 1/22/14	
					DESIGNED: C.P.		
						DATE	
					PROJECT ENGINEER: VIKRAM BAPNA	CRAIG BILEZERIAN CITY ENGINEER R.C.E. NO. 55339 EXP. 12/31/14	
						SCALE: AS SHOWN SHEET 18 OF 111	
					DIVISION ENGINEER: JOHN DETTLE	PLAN NO. SD - 500	




NOT TO SCALE

PLAN NO. SD - 500

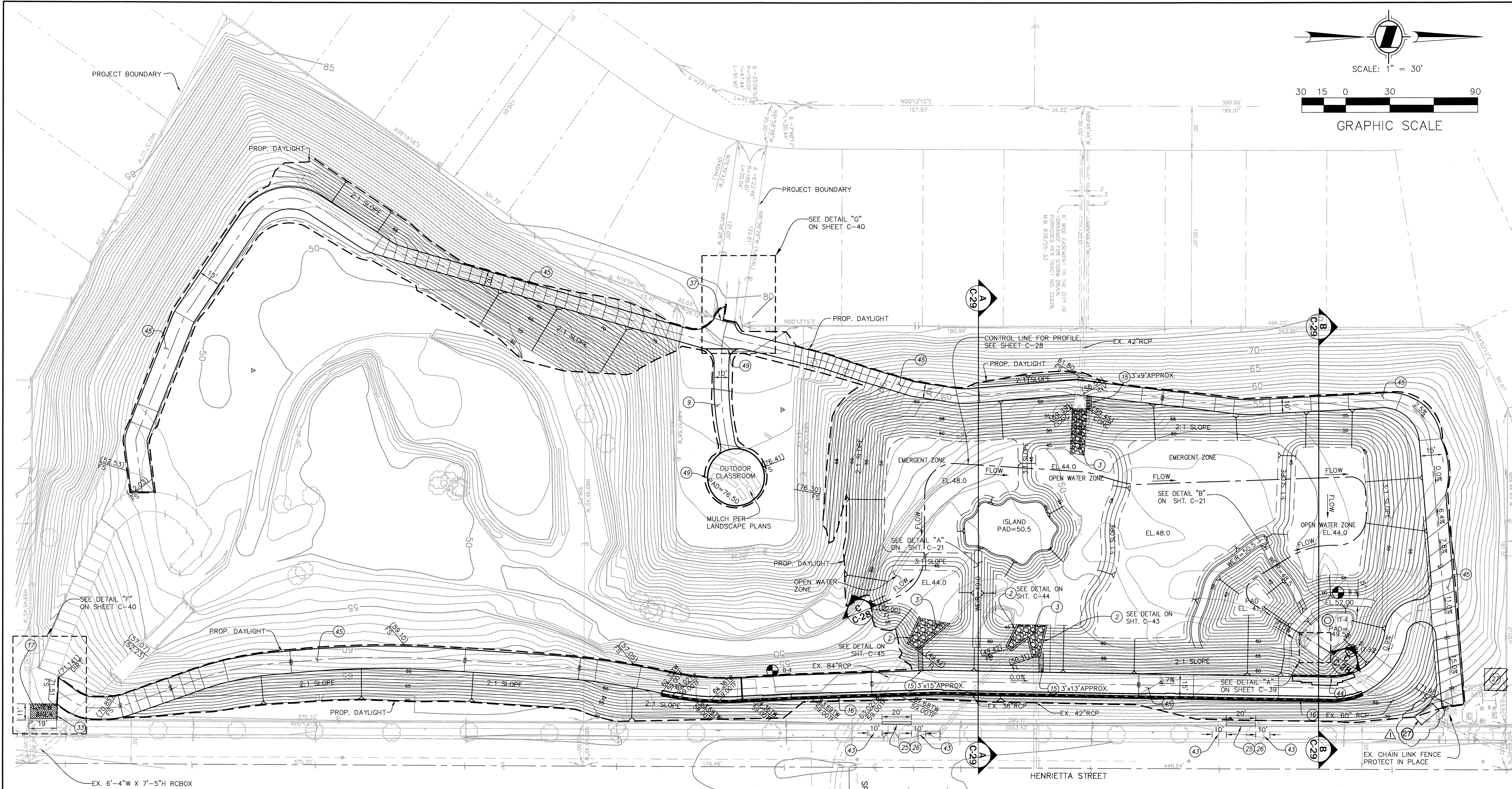
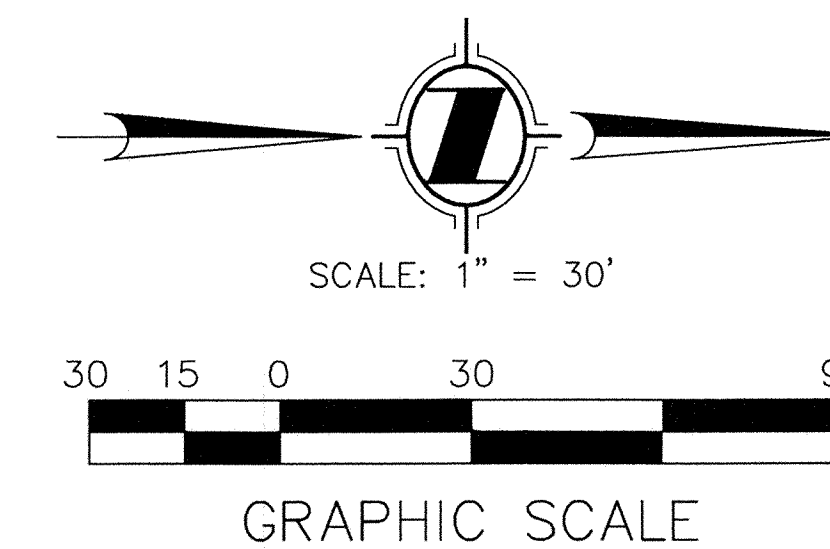
PARTS LIST			PARTS LIST		
ITEM	QTY	DESCRIPTION	ITEM	QTY	DESCRIPTION
1	1	8'x14'x13'-4" DEEP PRECAST CONCRETE WET WELL	40	1	14" DIP X PE, 42" SPOOL
2		OMIT	41	1	10" DIP X PE, 46" SPOOL
3		OMIT	42	1	3" DIP FLG x PE 72" SPOOL
4		OMIT	43		OMIT
5	1	60" X 156" (CLEAR OPEN) GALV. GRATE WITH 2" OPENINGS, HINGED, CAST IN FRAME, LOCKABLE.	44	1	JENSEN PRECAST CONCRETE FLAT TOP
6	1	304SS UPPER GUIDE RAIL BRACKET	45		OMIT
7	1	15 HP SUBMERSIBLE PUMP W/ AUTO COUPLING	46		OMIT
8	1	2" SCH40 GUIDE RAIL - 10' STAINLESS STEEL	47	1	2" TIDEFLEX SERIES TF-2 CHECK VALVE
9		OMIT	48	1	2"Ø HDPE PIPE, SCH 80
10		OMIT	49	2	POLYMERE/STAINLESS STEEL ACCESS LADDER
11		OMIT	50	4	21"x42" ALUMINUM DOOR HATCH
12		OMIT	51	3	14" FLEXIBLE PIPE CONNECTOR MEETING ASTM C-923
13	1	3" DUCTILE IRON FLANGED 90° ELBOW - CLASS 125	52	6	10" FLEXIBLE PIPE CONNECTOR MEETING ASTM C-923
14		OMIT	53	3	3" FLEXIBLE PIPE CONNECTOR MEETING ASTM C-923
15		OMIT	54		OMIT
16	1	2"x3" DUCTILE IRON FLANGED ECCENTRIC REDUCER - CLASS 150	55		OMIT
19	3	3" RESTRAINED FLANGE COUPLING ADAPTOR (RFCA) (BY ROMAC)	56	1	3" DIP FLG x PE, 96" SPOOL
20		OMIT	57	1	SS FLOAT BRACKET W/ CORD GRIPS
22		OMIT	58	1	INTERNALLY WEIGHTED NON-MERCURY MECHANICAL FLOAT
23	1	3" VAL-MATIC FLANGED SWINGFLEX CHECK VALVE	59	1	PRESSURE TRANSDUCER
24		OMIT	60		OMIT
25		OMIT	61	5	12" X 18" BOLT DOWN GALV. GRATE WITH 2" OPENINGS
26		OMIT	62		OMIT
27	1	3" PLUG VALVE BY VAL-MATIC	63		OMIT
28		OMIT	64	1	3" DIP FLG x PE 56" SPOOL
29		OMIT	65		OMIT
30	1	3" DIP FLG x FLG 12" SPOOL	66		OMIT
31	1	7'x14'x8' DEEP PRECAST CONCRETE VALVE VAULT	67		OMIT
32		OMIT	68		OMIT
33		OMIT	69		OMIT
34	1	3" DIP SLEEVE (LONG), MJ, W/ RESTRAINTS, SS HARDWARE	70		OMIT
35		OMIT	71	1	1/2" Ø STAINLESS STEEL CABLE
36		OMIT	72 - 79		OMIT
37	1	3in DIP FLG x PE, 54" SPOOL	80	1	V200 FILTER WITH 200 MICRON SCREEN
38		OMIT	81	2	10" CL 125 CAST IRON BLIND FLANGE
39	3	ADJUSTABLE PIPE STAND, FOR 3 in DIP, FLG STYLE	82	1	14" CL 125 CAST IRON BLIND FLANGE

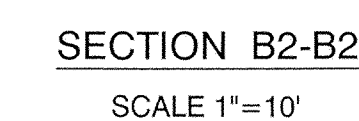
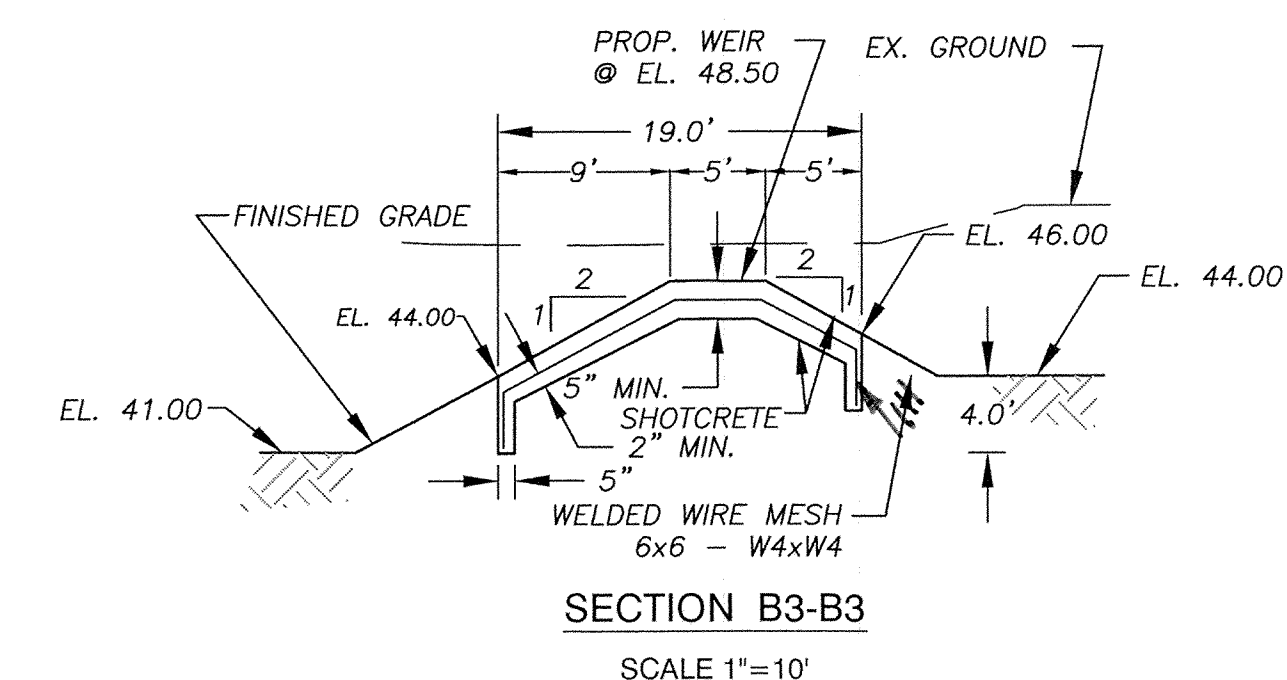
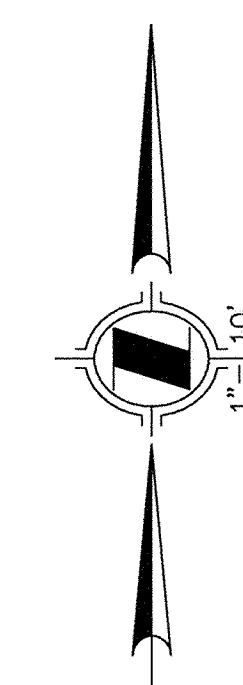
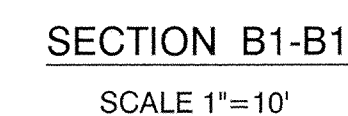
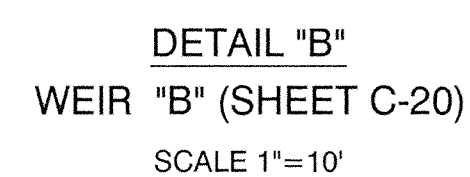
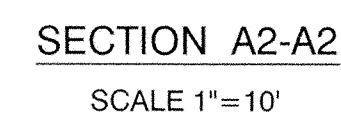
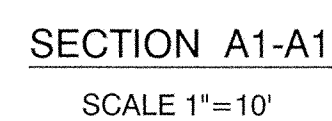
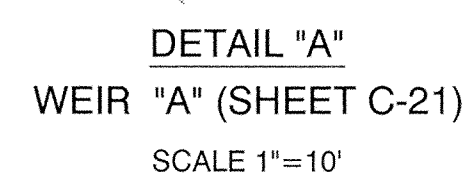
PUMP 4 CHARACTERISTICS	
DESCRIPTION	VALUE
DESIGN FLOW	58.9 gpm
TOTAL DYNAMIC HEAD	201.1 ft
HORSE POWER	14.8
FLA	18.6A
MAX PUMP SPEED	3530 rpm
POWER SUPPLY	3PHASE 480V
NUMBER OF PUMPS	1
FREQUENCY	60 HZ

AMIE BASIN PUMP STATION PARTS LIST : C-19

REV.	DATE	DESCRIPTION	BY	CHECKED	<div><div><div>REGISTERED PROFESSIONAL ENGINEER CRAIG BILEZERIAN No. 55339 Exp. 12/31/14 CIVIL STATE OF CALIFORNIA</div><div><div>REGISTERED PROFESSIONAL ENGINEER VIKRAM BAPNA No. C52060 Exp. 12-31-14 STATE OF CALIFORNIA</div></div></div></div>	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT	
						DRAWN: ALF	APPROVED:
						DESIGNED: C.P.	 1/22/14
						PROJECT ENGINEER: VIKRAM BAPNA	CRAIG BILEZERIAN CITY ENGINEER R.C.E. NO. 55339
							DATE EXP. 12/31/14
						DIVISION ENGINEER: JOHN DETTLE	SCALE: AS SHOWN SHEET 20 OF 111
							PLAN NO. SD - 500

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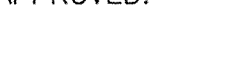




1. ALL SHOTCRETE TO BE STAINED PER SPECIFICATIONS.
2. WELDED WIRE MESH TO BE 2" CLEAR FROM FACE.

[illegible]

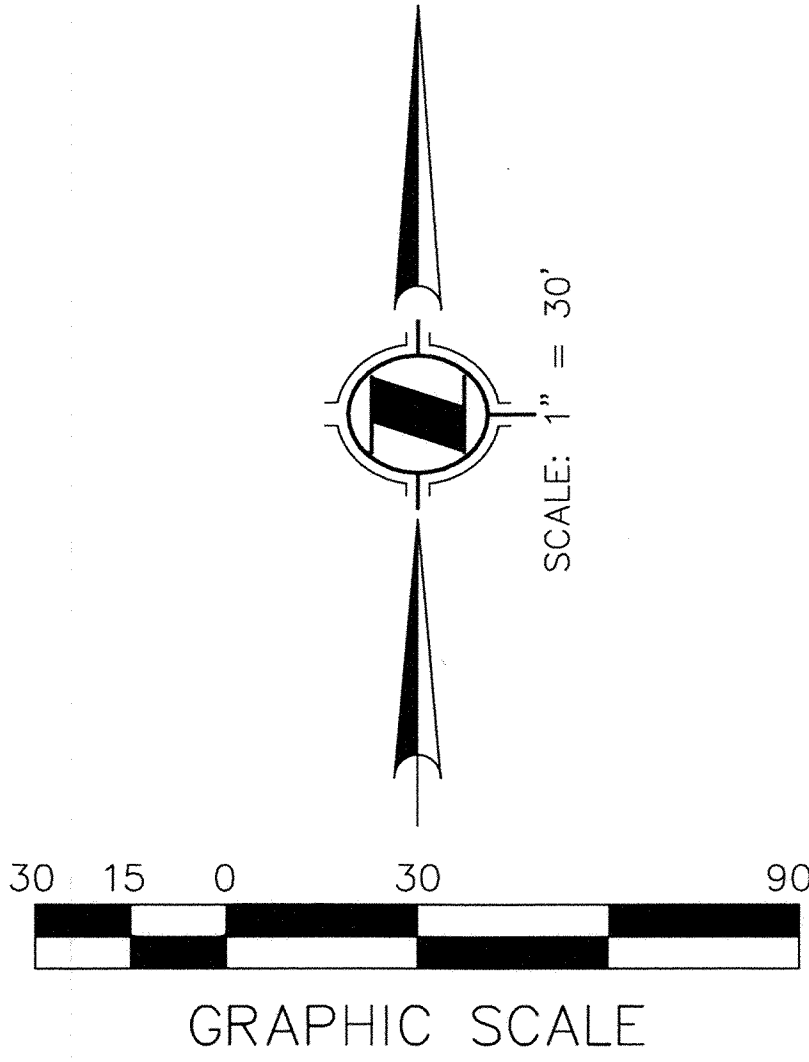
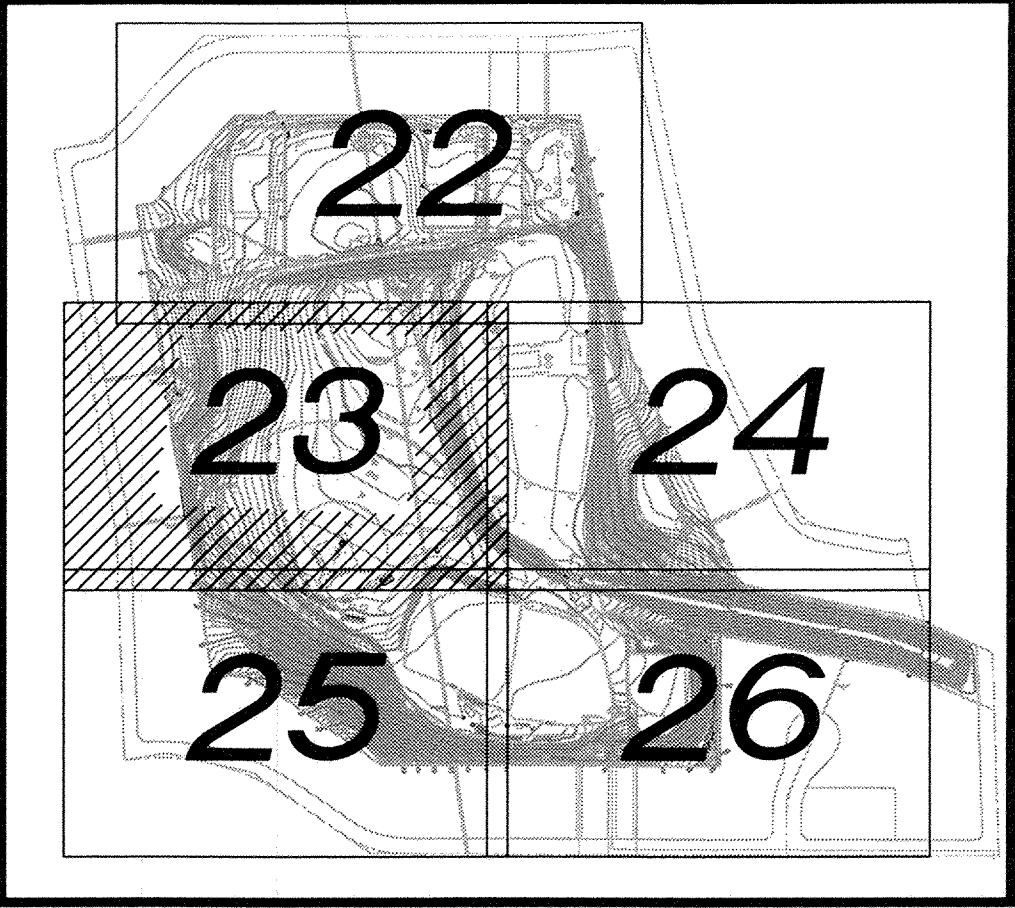
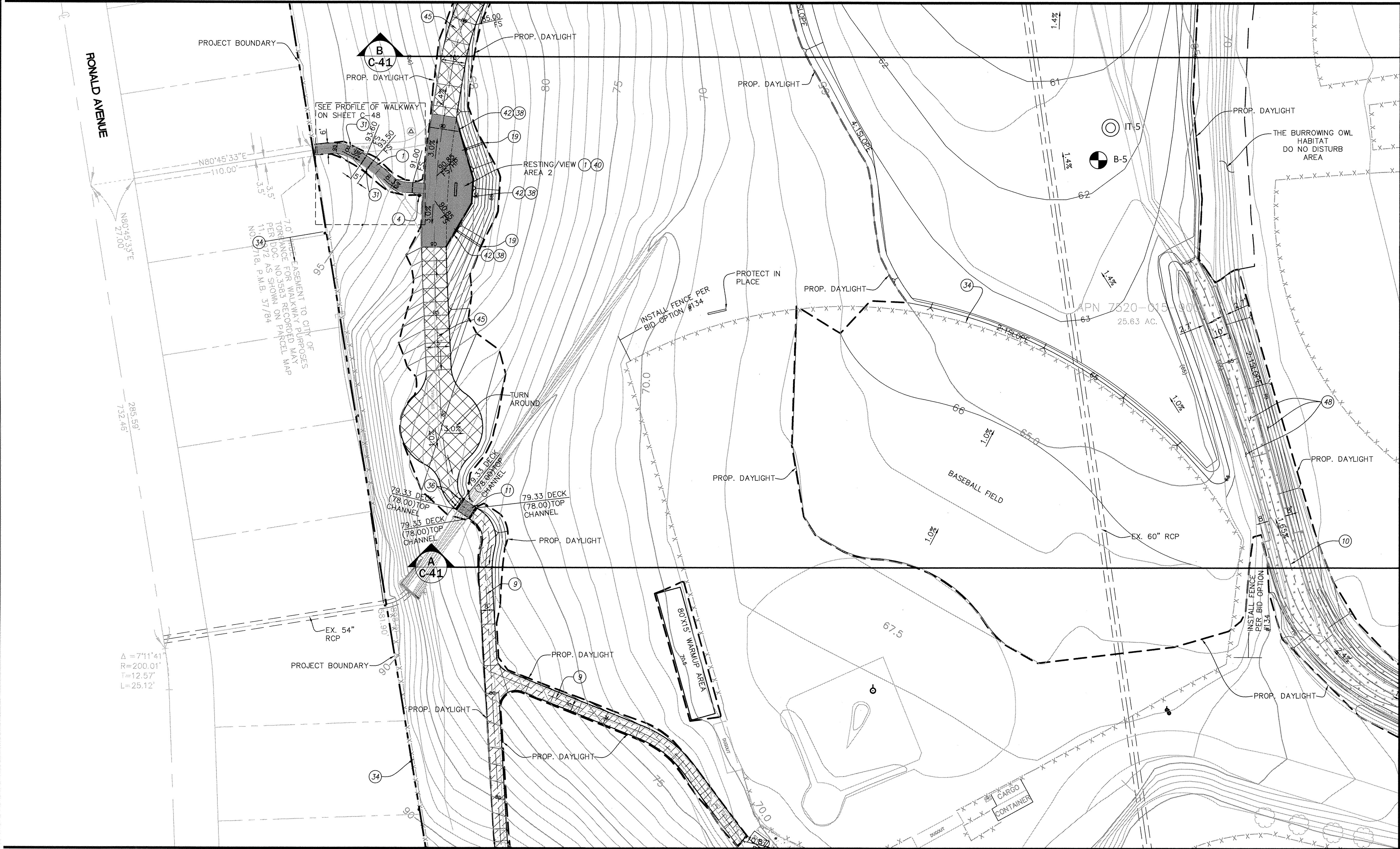
★	DRAWN: ALF
	DESIGNED: C.P.
★	PROJECT ENGINEER: VIKRAM BAPNA
	DIVISION ENGINEER: JOHN DETTLE

APPROVED:	 5/28/13		
	TOUFIC J. SEMAAN ACTING CITY ENGINEER R.C.E. NO. 59226	DATE	EXP. 06/30/13
SCALE: AS SHOWN	SHEET 22	OF 111	
PLAN NO.	SD - 500		



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SEE SHEET C-22 FOR CONTINUATION



SEE SHEET C-24 FOR CONTINUATION

SEE SHEET C-25 FOR CONTINUATION

CONSTRUCTION NOTES:

- 1. CONSTRUCT 3-1/2" P.C.C. OVER 4" C.M.B. ACCESS ROAD, ENTRANCE WALKWAY AND/OR VIEW AREA (ADA AREA) PER DETAIL ON SHEET C-37.
- 3. CONSTRUCT RIPRAP PER DETAILS ON SHEETS C-39 AND C-40.
- 4. INSTALL PET WASTE BAG DISPENSER AND TRASH RECEPTACLE PER SPECIFICATIONS.
- 9. CONSTRUCT DIRT TRAIL (NON-ADA), WIDTH PER PLAN AND PER DETAIL ON SHEET C-37.
- 10. CONSTRUCT EARTHEN CHANNEL WITH EROSION CONTROL PER DETAIL ON SHEET C-39.
- 11. INSTALL TIMBER BRIDGE PER DETAILS ON SHEET C-38.
- 19. PROVIDE 4" WIDE CURB CUT WITH 1' WIDE BACKING NO. 2 SLOPE PROTECTION.
- 31. INSTALL METAL HAND RAIL PER DETAILS ON SHEET C-39.
- 34. REMOVE AND REPLACE CHAIN LINK FENCE, PER SPECIFICATIONS (H=6').
- 36. INSTALL 4" REMOVABLE BOLLARDS - CAL PIPE SECURITY BOLLARD MODEL IBP 4040 OR APPROVED EQUAL.
- 38. INSTALL GALVANIZED STEEL RAILING PER DETAIL ON SHEET C-40.
- 40. INSTALL VIEWING BENCH AND RECOGNITION/INFORMATION SIGN PER DETAIL ON SHEET L-7.
- 42. CONSTRUCT 6" CURB PER SPPWC STD. 120-2, TYPE A1-6.
- 45. CONSTRUCT 4" C.M.B. ACCESS ROAD (NON-ADA) PER DETAIL ON SHEET C-37.
- 48. INSTALL FLEX-A-MAT TIED CONCRETE BLOCK MAT (OR APPROVED EQUAL) EROSION CONTROL PER DETAIL ON SHEET C-39 (DIMENSIONS PER PLAN).

LEGEND

- PCC ACCESS ROAD (ADA) AND VIEW AREA
- DIRT TRAIL (NON ADA)
- C.M.B TRAIL
- RIP-RAP
- GRADING BOUNDARY - WORK LIMIT
- APPROXIMATE BORING LOCATION
- APPROXIMATE INFILTRATION TEST LOCATION
- FLEX-A-MAT TIED CONCRETE BLOCK MAT EROSION CONTROL

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GRADING PLAN - ENTRADERO BASIN : C-23








REV.	DATE	DESCRIPTION	BY	CHECKED

CITY OF TORRANCE PUBLIC WORKS DEPARTMENT	
APPROVED:	DATE: 5/28/13
DRAWN: ALF	PROJECT ENGINEER: VIKRAM BAPNA
DESIGNED: C.P.	DIVISION ENGINEER: JOHN DETTLE
SCALE: AS SHOWN SHEET 24 OF 111	
PLAN NO. SD - 500	

SEE SHEET C-23 FOR CONTINUATION



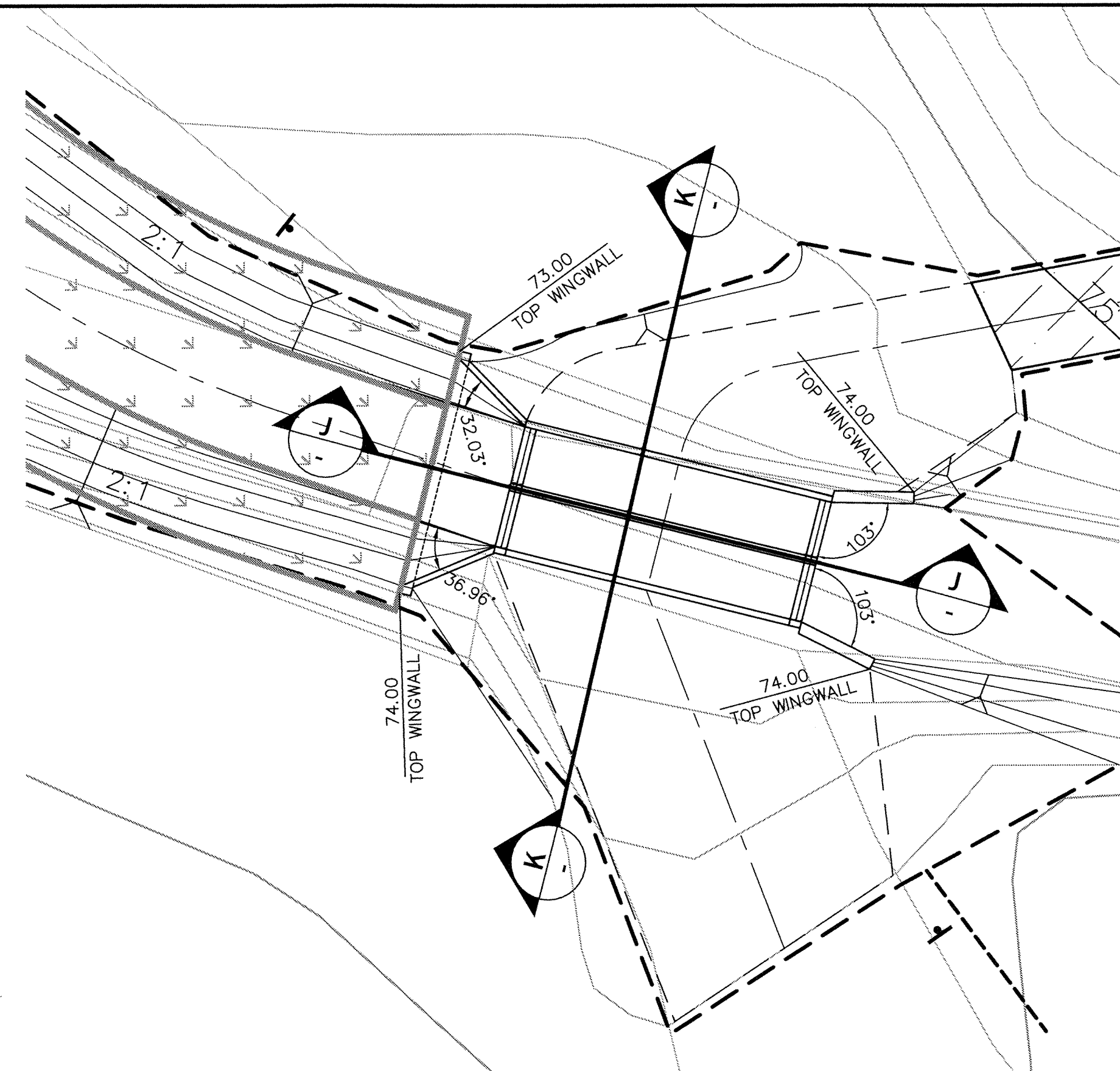
LEGEND

- | | |
|---|-----------------------------------|
|  | ACCESS ROAD AND TRAIL (ADA) |
|  | DIRT TRAIL (NON ADA) |
|  | EARTHEN CHANNEL RESTORATION |
|  | COMPACTED BACKFILL |
|  | FLEX-A-MAT TIE CONCRETE BLOCK MAT |
|  | EROSION CONTROL |
|  | GRADING BOUNDARY — WORK LIMIT |

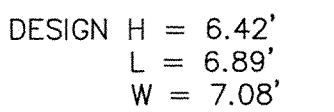


REINFORCED CONCRETE DOUBLE BOX CULVERT

SCALE: HOR. 1"=10'


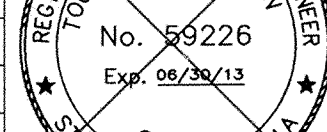


SCALE: HOR. 1"=5'

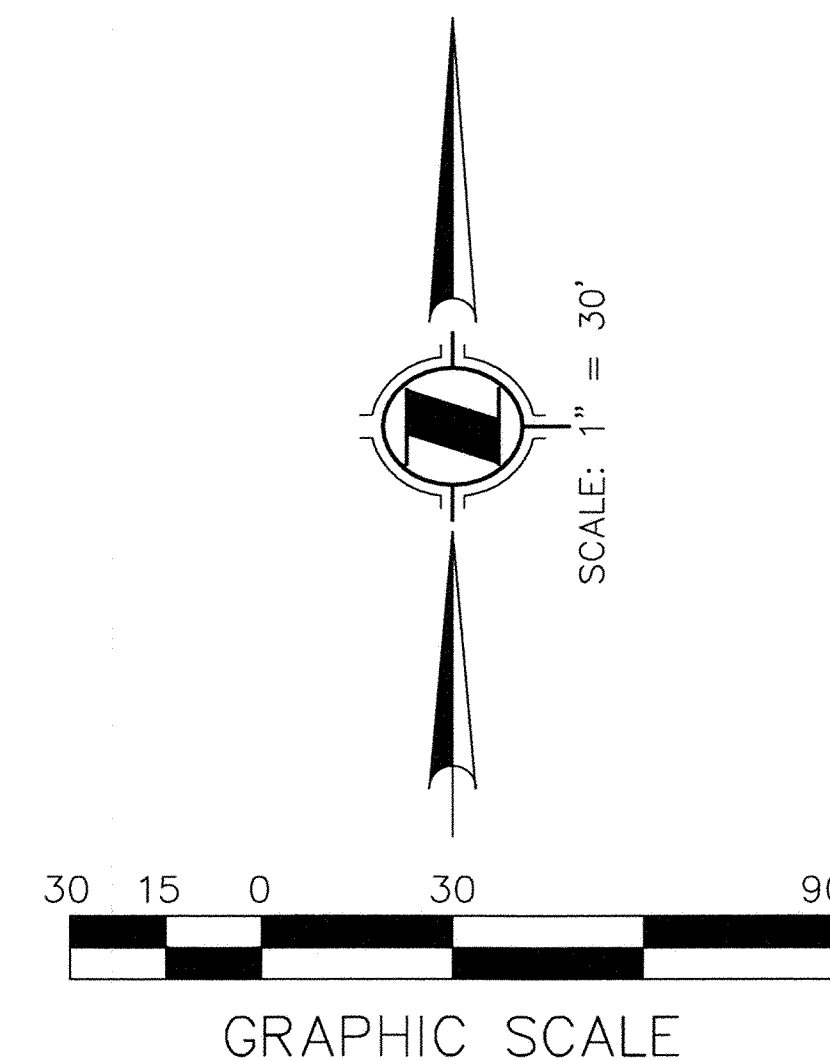
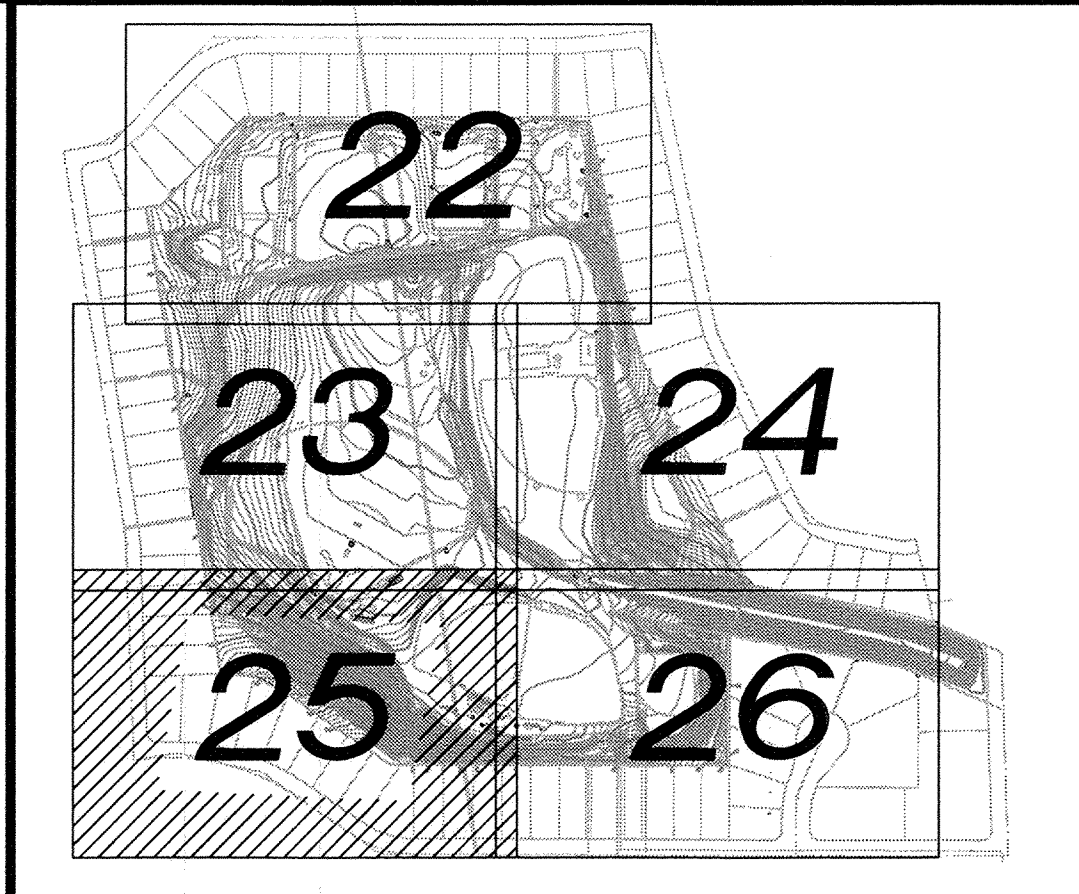


SCALE: HOR. 1"=5'

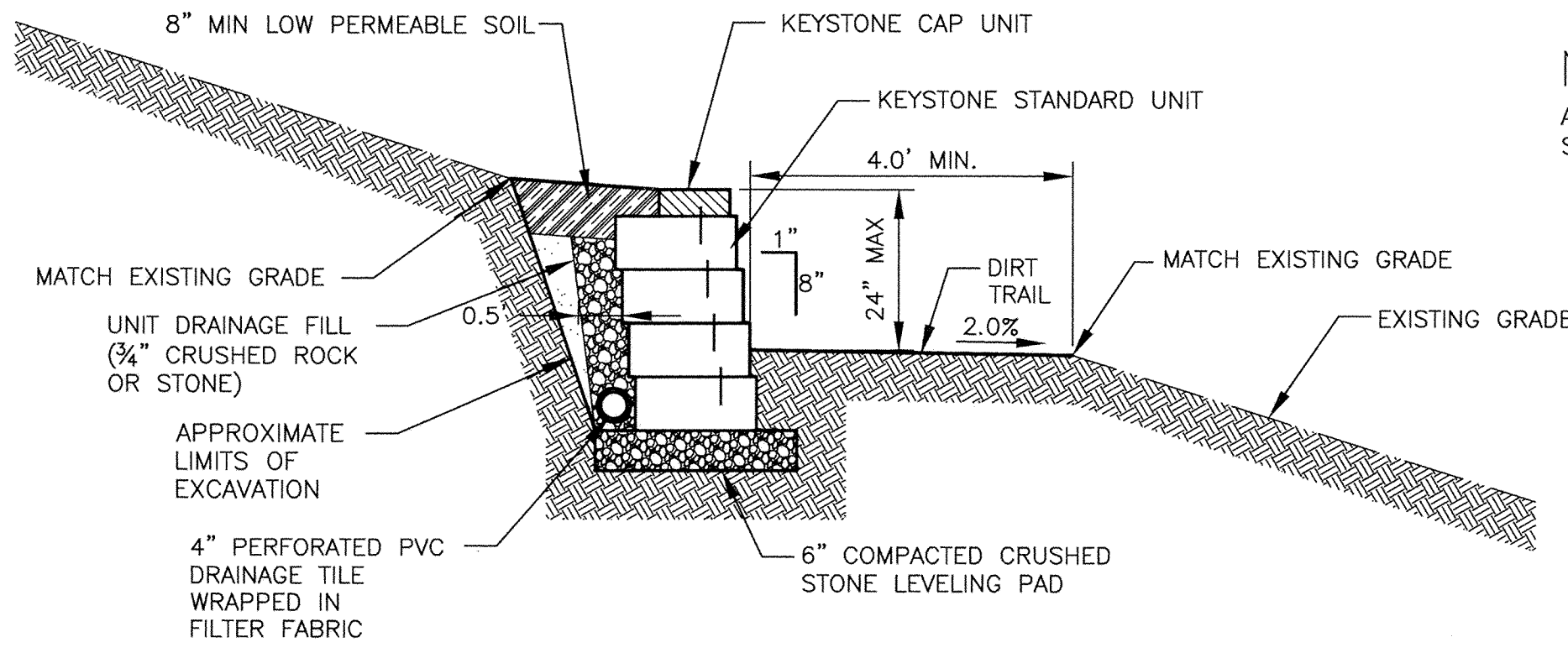
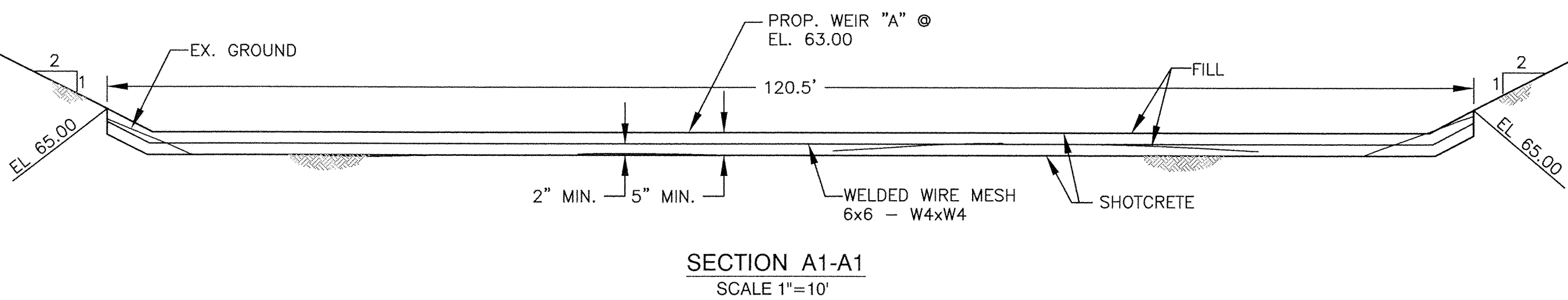
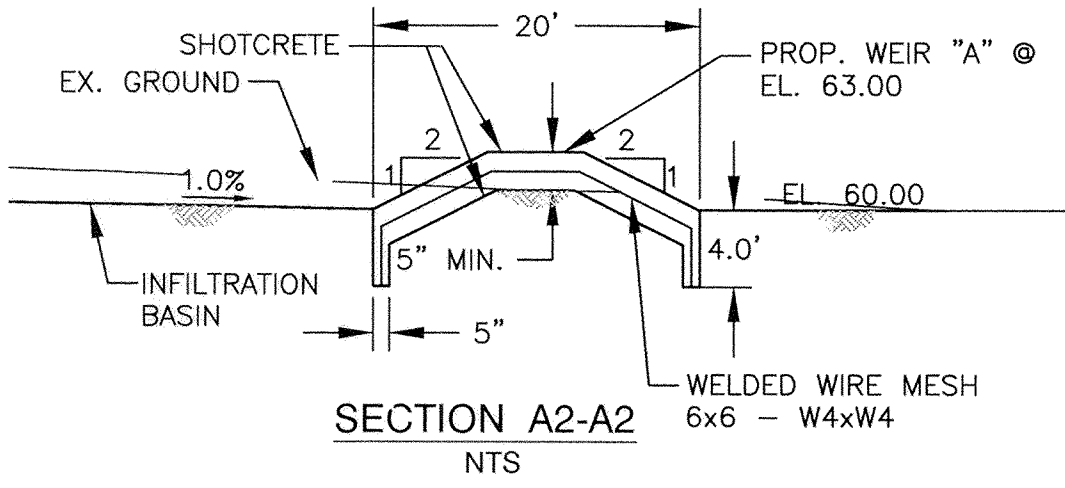
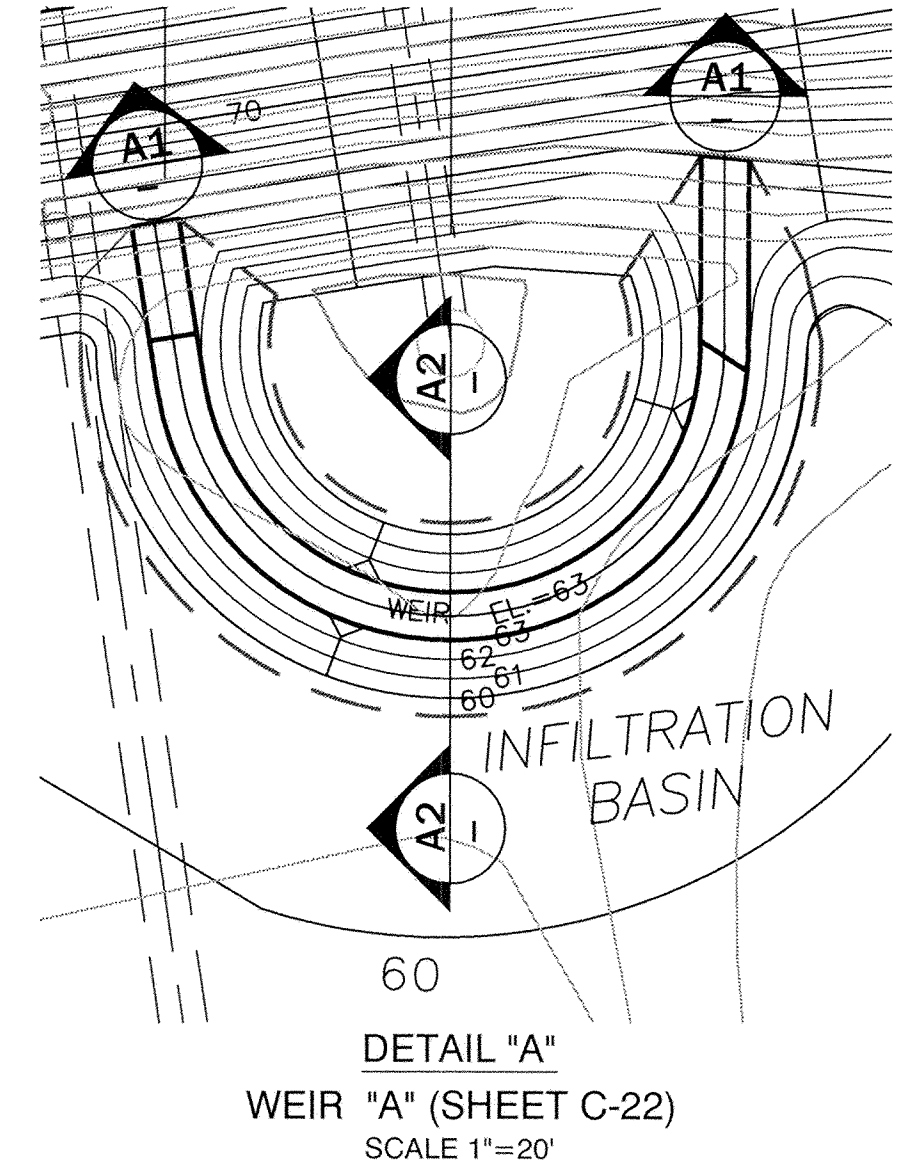
CITY OF TORRANCE
PUBLIC WORKS DEPARTMENT

REV.	DATE	DESCRIPTION	BY	CHECKED	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT	
1	12/20/13	CHANGED PCC TO DIRT.	VP.	JCD	<div style="display: flex; justify-content: space-between;"> <div>  </div> <div> <p>APPROVED:</p> <p>DRAWN: ALF</p> <p>DESIGNED: C.P.</p> <p>PROJECT ENGINEER: VIKRAM BAPNA</p> <p>DIVISION ENGINEER: JOHN DETTLE</p> </div> <div> <p>TOUFIC J. SEMAAN ACTING CITY ENGINEER R.C.E. NO. 59226 EXP. 06/30/13</p> <p>DATE 5/25/13</p> </div> </div>	
					<div style="display: flex; justify-content: space-between;"> <div>  </div> <div> <p>SCALE: AS SHOWN SHEET 25 OF 111</p> <p>PLAN NO. SD - 500</p> </div> </div>	

SEE SHEET C-23 FOR CONTINUATION






SEE SHEET C-26 FOR CONTINUATION

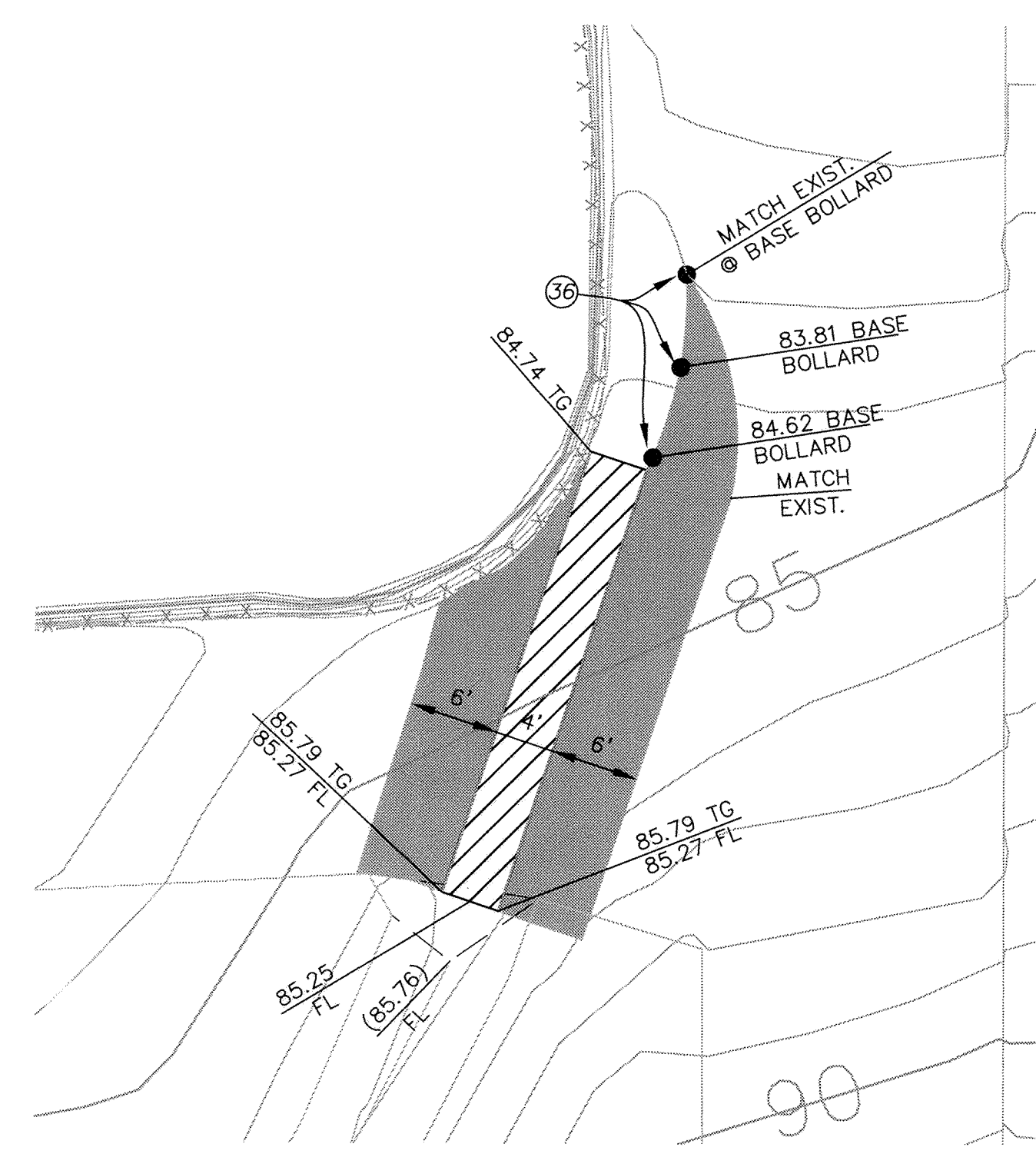


NOTE:
ALL SHOTCRETE TO BE
STAINED PER SPECIFICATIONS

GRADING PLAN - ENTRADERO BASIN : C-25

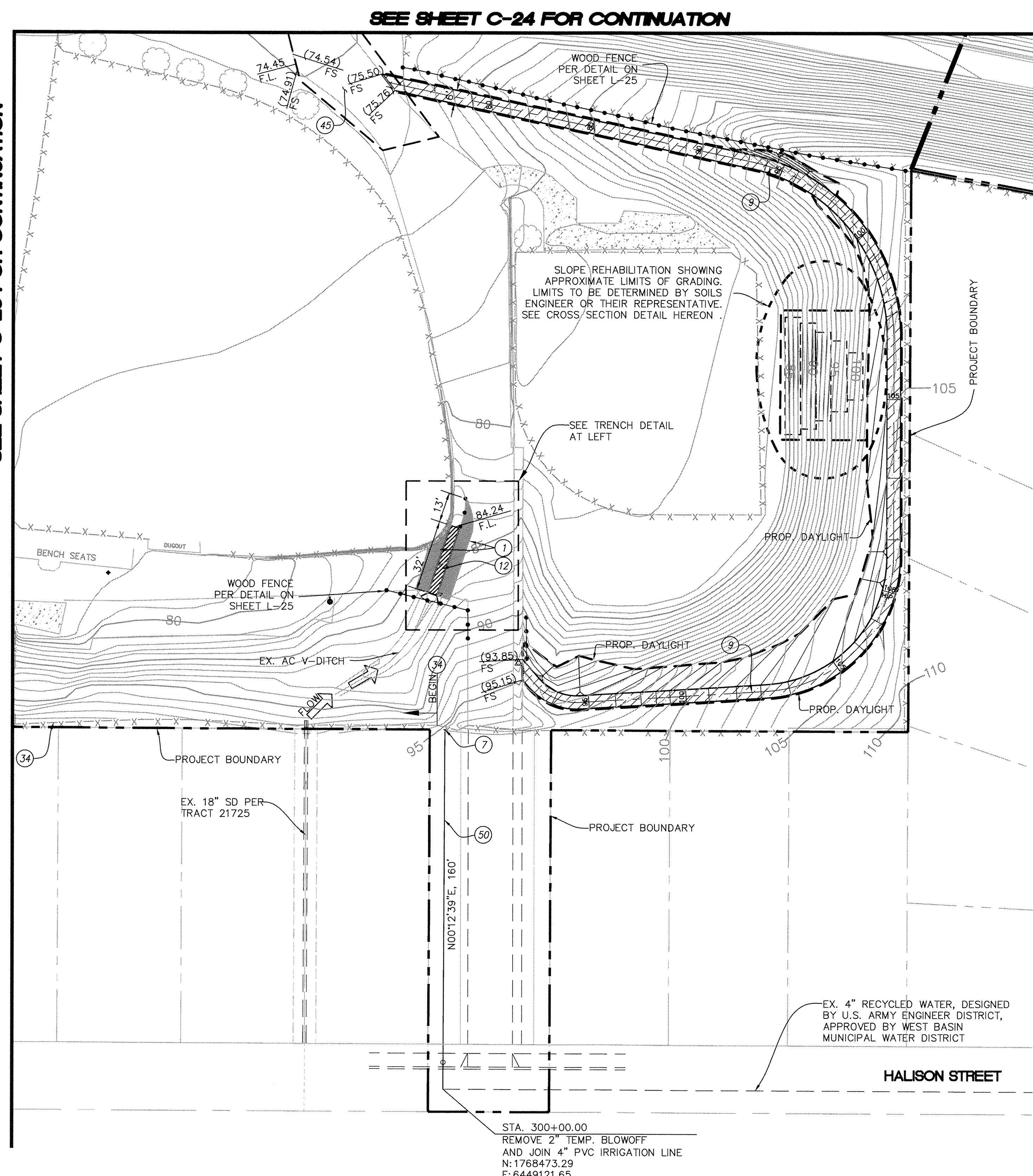
REV.	DATE	DESCRIPTION	BY	CHECKED	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT			
						DRAWN: ALF	APPROVED:  5/28/13	
						DESIGNED: C.P.		
						PROJECT ENGINEER: VIKRAM BAPNA	TOUFIC J. SEMAAN ACTING CITY ENGINEER R.C.E. NO. 59226 DATE EXP. 06/30/13	
						DIVISION ENGINEER: JOHN DETTLE	SCALE: AS SHOWN	SHEET <u>26</u> OF <u>111</u>
						PLAN NO.	SD - 500	

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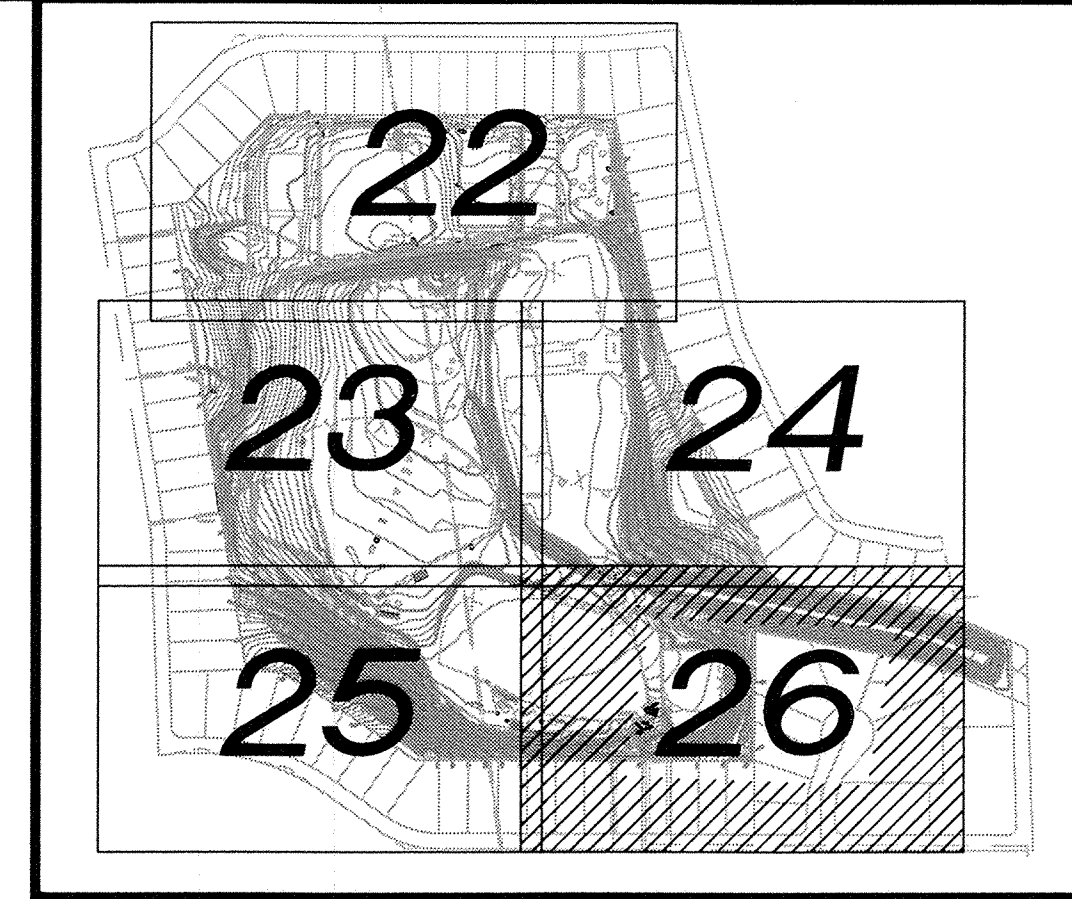
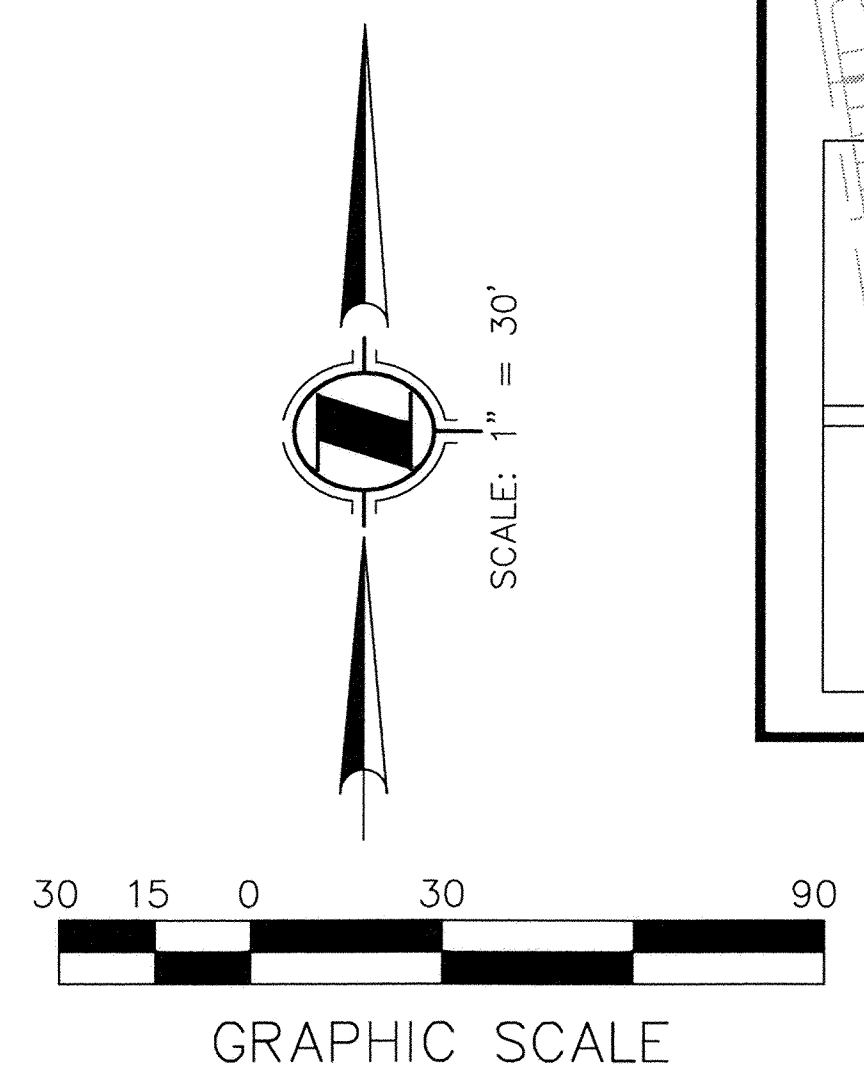


TRENCH DRAIN AND GRATE DETAIL
SCALE: 1" = 10"

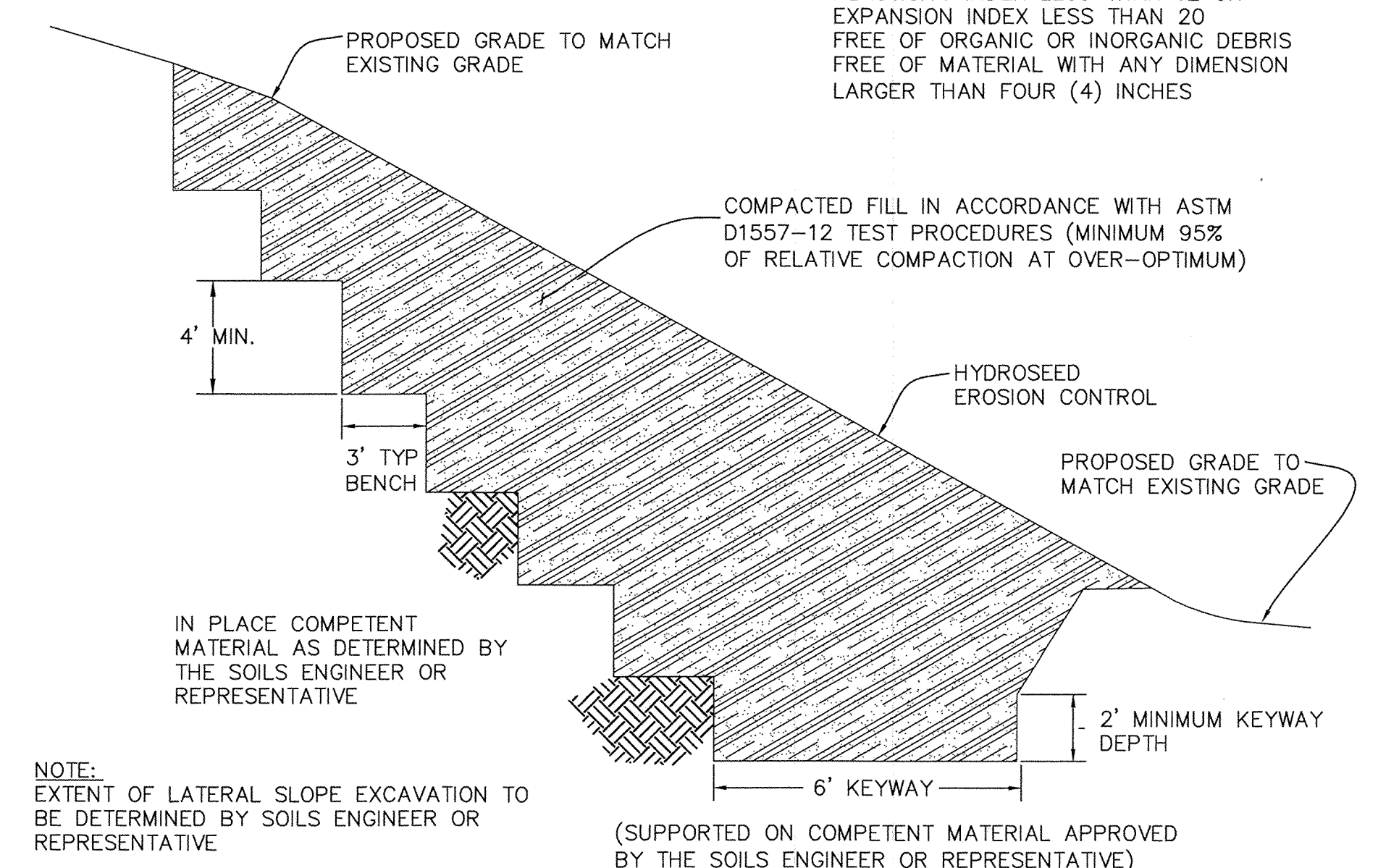
SEE SHEET C-25 FOR CONTINUATION



SEE SHEET C-24 FOR CONTINUATION



SPECIFICATION FOR FILL MATERIAL
PLASTICITY INDEX LESS THAN 12 OR
EXPANSION INDEX LESS THAN 20
FREE OF ORGANIC OR INORGANIC DEBRIS
FREE OF MATERIAL WITH ANY DIMENSION
LARGER THAN FOUR (4) INCHES



NOTE:
EXTENT OF LATERAL SLOPE EXCAVATION TO
BE DETERMINED BY SOILS ENGINEER OR
REPRESENTATIVE

SLOPE REHABILITATION SECTION
N.T.S.

GRADING PLAN - ENTRADERO BASIN : C-26

CONSTRUCTION NOTES:

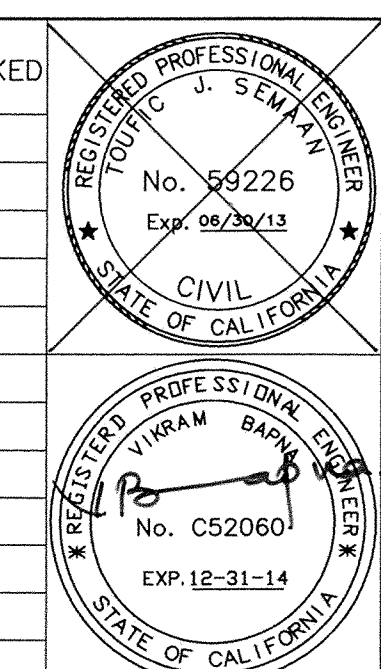
- CONSTRUCT 3 1/2" P.C.C. OVER 4" C.M.B. ACCESS ROAD, TRAIL, AND/OR VIEW AREA (ADA AREA) PER DETAIL ON SHEET C-37.
- SEE IRRIGATION PLANS FOR CONNECTION (L1 - L5).
- CONSTRUCT DIRT TRAIL (NON-ADA), WIDTH PER PLAN AND PER DETAIL ON SHEET C-37.
- CONSTRUCT 4' X 32" TRENCH DRAIN AND INSTALL GRATE COVER - GRATING PACIFIC OR APPROVED EQUAL, PER DETAIL ON SHEET C-37.
- REMOVE AND REPLACE CHAIN LINK FENCE PER SPECIFICATIONS (H = 6').
- INSTALL 4" REMOVEABLE BOLLARDS - CAL PIPE SECURITY BOLLARD MODEL IBP 4040 OR APPROVED EQUAL.
- CONSTRUCT 4" C.M.B. PER DETAIL ON SHEET C-37.
- INSTALL 4" PVC IRRIGATION PIPE.

LEGEND

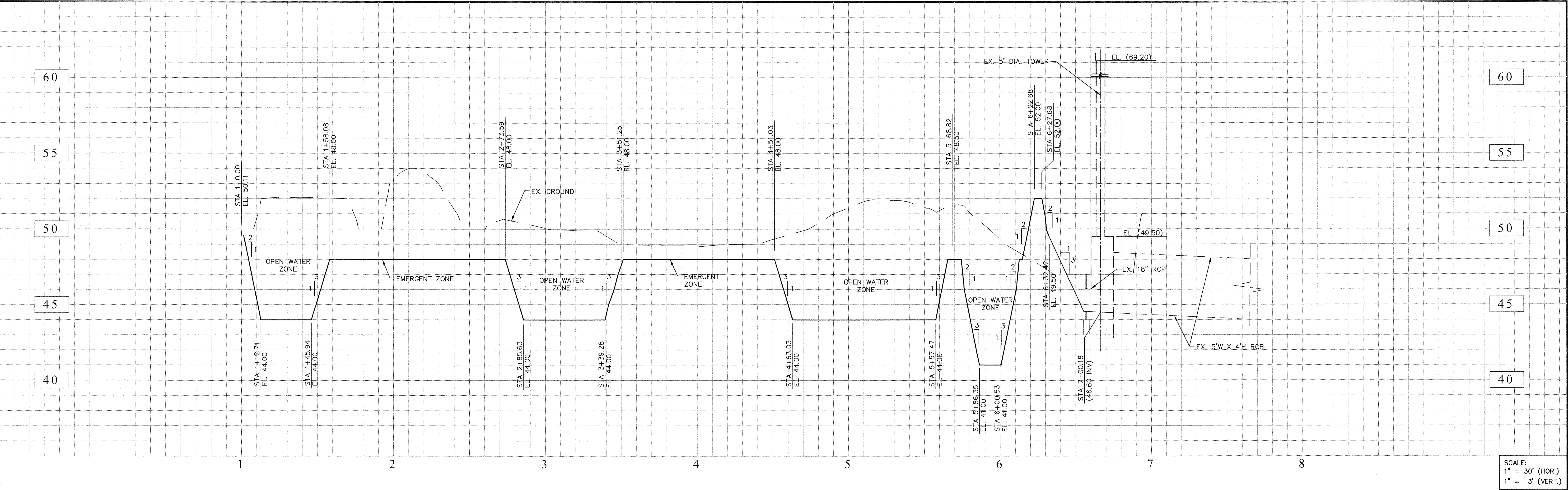
- DIRT TRAIL (NON ADA)
- EARTHEN CHANNEL RESTORATION
- GRADING BOUNDARY - WORK LIMIT
- TRENCH DRAIN COVER

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REV.	DATE	DESCRIPTION	BY	CHECKED



CITY OF TORRANCE PUBLIC WORKS DEPARTMENT	
DRAWN: ALF	APPROVED:
DESIGNED: C.P.	<i>J. Semman</i> 5/28/13
PROJECT ENGINEER: VIKRAM BAPNA	TOUR J. SEMMAN ACTING CITY ENGINEER R.C.E. NO. 59226
DIVISION ENGINEER: JOHN DETTLE	DATE EXP. 06/30/13
PLAN NO. SD - 500	SCALE: AS SHOWN SHEET 27 OF 111

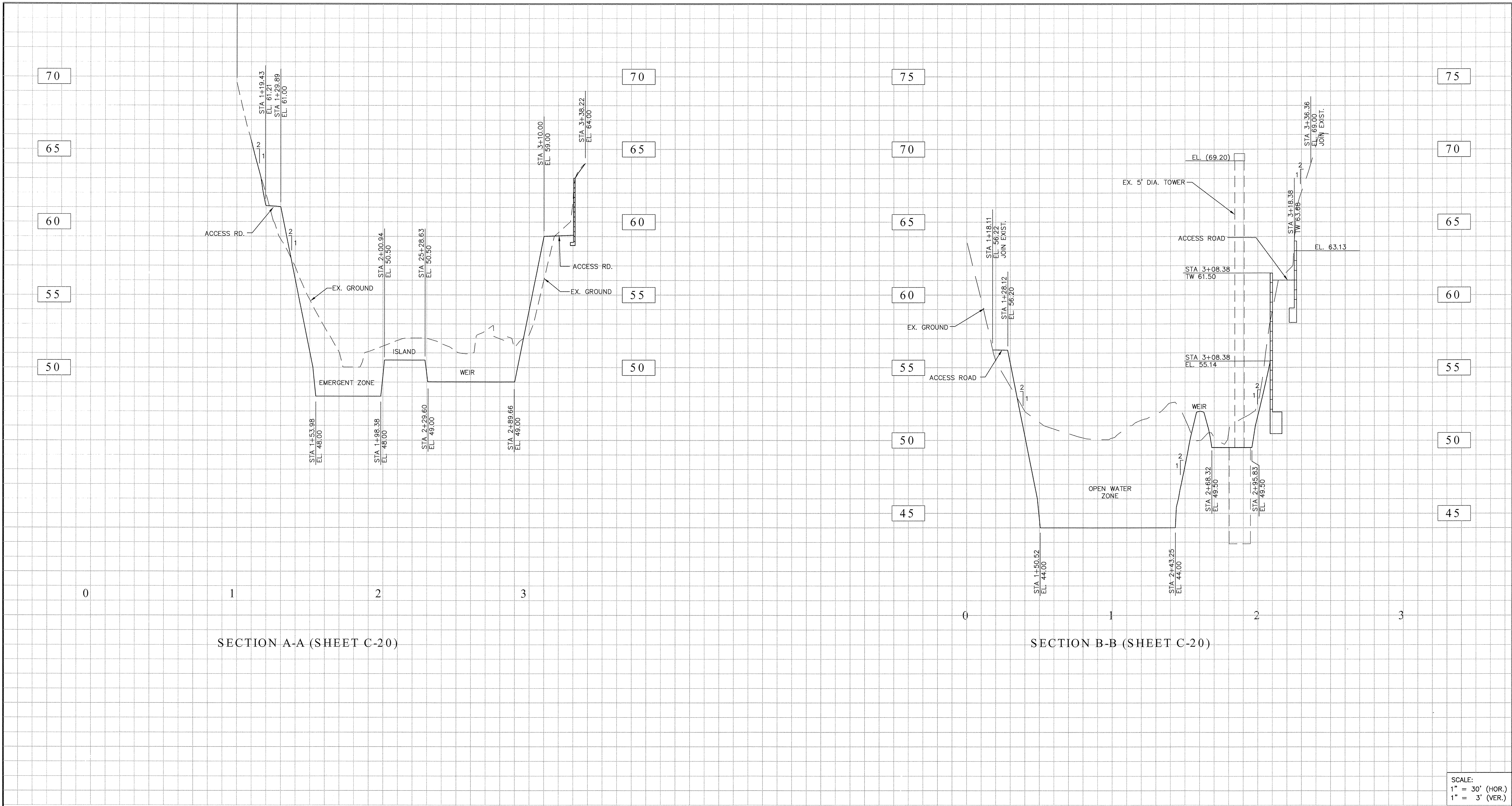


CONTROL LINE PROFILE C-C (SHEET C-20)

PROFILE AND CROSS SECTIONS - HENRIETTA BASIN : C-28

REV. DATE DESCRIPTION BY CHECKED				<div>REGISTERED PROFESSIONAL ENGINEER TOUFIC J. SEMAAN No. 59226 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA</div> <div>REGISTERED PROFESSIONAL ENGINEER VIKRAM BAPNA No. C52060 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA</div>	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT	
					APPROVED:	
					DRAWN: T.P.	
					DESIGNED: T.P.	
					PROJECT ENGINEER: VIKRAM BAPNA	
					DIVISION ENGINEER: JOHN DETTLE	
					DATE 5/29/13 EXP. 06/30/13	
				SCALE: SHEET 30 OF 111		
				PLAN NO. SD-500		


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SCALE:
1" = 30' (HOR.)
1" = 3' (VER.)

PROFILE AND CROSS SECTIONS - HENRIETTA BASIN : C-29

REV.	DATE	DESCRIPTION	BY	CHECKED

CITY OF TORRANCE PUBLIC WORKS DEPARTMENT	
APPROVED:	
DRAWN: T.P.	 5/28/13
DESIGNED: T.P.	
PROJECT ENGINEER: VIKRAM BAPNA	TOUFIC J. SEMAM ACTING CITY ENGINEER R.C.E. NO. 59226 EXP. 06/30/13
DIVISION ENGINEER: JOHN DETTLE	DATE: 5/28/13
PLAN NO. SD-500	SCALE: SHEET 31 OF 111

PREPARED BY:
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CITY OF TORRANCE: HENRIETTA INLET LOCATIONS								
ID	MAP #	STREET	NEAREST X-STREET	CORNER	CB_TYPE	V_IN	V_OUT	WIDTH
039-2-01	SD-0039	CARMELYNN ST	WILMA ST	N	2	7.0'		7'
039-2-02	SD-0039	CARMELYNN ST	WILMA ST	S	2	8.0'		7'
039-2-04	SD-0047	DEL AMO BLVD	HENRIETTA ST	NE	39	4.0'		7'
039-3-06	SD-0027	VICTOR ST	DEL AMO BLVD	SW	2	5.70'		7'
039-3-07	SD-0027	VICTOR ST	DEL AMO BLVD	SE	2	3.5'		7'
039-5-03	SD-0047	WAYNE AVE	WHITE CT	NW	40	4.75'		14'
039-5-04	SD-0047	WAYNE AVE	WHITE CT	E	40	8.0'		14'
039-5-12	SD-0047	WAYNE AVE	WHITE CT	SW	39	4.25'		7'
039-5-13	SD-0047	HENRIETTA ST	SPENCER ST	NW	40	4.75'		14'
039-5-14	SD-0047	HENRIETTA ST	SPENCER ST	NE	40	3.75'		14'
040-1-01	SD-0045	DEL AMO BLVD	DONORA AVE	N	2	3.5'		7'
040-1-02	SD-0045	DONORA AVE	DEL AMO BLVD	NE	2	4.07'		7'
040-1-03	SD-0045	DONORA AVE	KONYA DR	W	2	5.50'		7'
040-3-01	ST-309	DEL AMO BLVD	EARL ST	NW	1	4.5'		3.50'
040-3-02	ST-309	DEL AMO BLVD	EARL ST	SW	3	5'1"		28'
040-3-04	SD-377	KONYA DR	EARL ST	NE	1	4.0'		3.50'
040-3-05	SD-377	KONYA DR	EARL ST	CUL-DE-SAC	3	4.60'		14'
040-3-09	SD-377	KONYA DR	EARL ST	SE	2	4.0'		7'
040-4-01	SD-0045	DONORA AVE	KONYA DR	SE	2	3.35'		7'
040-5-10	SD-400	ANZA AVE	SPENCER ST	NW	2			7'
040-5-12	SD-400	SPENCER ST	ANZA AVE	NW	2			7'
040-5-13	SD-177	SPENCER ST	WEARL AVE	NW	3	4.00'		14'
040-6-01	SD-377	MICHELLE DR	EARL ST	CUL-DE-SAC	3	4.80'		3.50'
040-6-03	SD-431	EARL ST	SPENCER ST	NW	3	4.0'		21'
040-6-04	SD-431	SPENCER ST	EARL ST	NE	2	3.67'		7'
040-6-05	SD-431	SPENCER ST	EARL ST	NE	6	7.0'		21'
046-2-04	SD-47	HENRIETTA ST	EDGEEMERE DR	NW	40	6.00'		28'
046-2-05	SD-47	HENRIETTA ST	EDGEEMERE DR	NE	39	4.50'		7'
046-2-06	SD-47	HENRIETTA ST	EDGEEMERE DR	NW	40	5.00'		28'
046-2-13	SD-469	VACCARO AVE	GARNET ST	SE	300-1	4.0'		10'
046-3-04	SD-469	ENTRADERO AVE	GARNET ST	SE	300-1	3.84'		10'
046-5-03	SD-1053	LORNA ST	HENRIETTA ST	NW	300	4.75'		10'
046-5-04	SD-452	ANNRITA AVE	LORNA ST	NW	307-0	7.57'		7'
046-5-06	SD-1053	LORNA ST	HENRIETTA ST	SW	307	4.75'		14'
047-1-03	SD-265	GARNET ST	ANZA AVE	W	2	4.00'	AREA DRAIN 2- 2'x3'	
047-2-11	SD-177R1	SPENCER ST	ANZA AVE	SE	1	3'6"		3.50'
047-2-13	SD-174	ANZA AVE	SPENCER ST	SW	3	5.0'		21'
047-2-17	SD-217	ALLEY E/ANZA AVE	SPENCER ST	S	5	3'6"	AREA DRAIN 3- 2'x3'	
047-2-18	SD-174	ANZA AVE	SPENCER ST	SW	3	4.80'		14'
047-2-20	SD-174	ANZA AVE	SPENCER ST	SE	1	3.50'		3.50'
047-2-25	SD-174	GARNET ST	ANZA AVE	SW	3	4.80'		14'
047-2-28	SD-174	ANZA AVE	GARNET ST	SW	3	4.60'		21'
047-2-32	SD-177R1	SPENCER ST	ANZA AVE	SE	3	4.00'		10'
047-3-05	SD-431	SPENCER ST	EARL ST	SE	3	5.0'		14'
047-3-13	SD-308	MANSEL AVE	EMERALD ST	CUL-DE-SAC	1			3.50'
047-3-15	SD-308	EARL ST	EMERALD ST	NE	1	3.75'		3.50'
047-3-16	SD-308	EARL ST	EMERALD ST	NW	1	4.0'		3.50'
053-1-01	ST-0559	TORRANCE BLVD	HENRIETTA ST	NW	1			3.50'
053-1-04	ST-0559	TORRANCE BLVD	HENRIETTA ST	SW	3			14'
053-1-05	ST-0559	TORRANCE BLVD	HENRIETTA ST	SW	1			3.50'
053-2-04	SD-331	TORRANCE BLVD	HENRIETTA ST	NW	3	7.50'		14'
055-1-01	SD-366	MARICOPA ST	EARL ST	SE	2			7'

COUNTY: HENRIETTA INLET LOCATIONS								
ID	MAP #	STREET	NEAREST X-STREET	CORNER	CB_TYPE	V_IN	V_OUT	WIDTH
046-2-14	SD-1053	GARNET ST	HENRIETTA AVE	NE	300	6'0"	6'6"	10'
046-2-15	SD-1053	HENRIETTA AVE	EDGEEMERE DR	SW	307	4'6"		14'
046-2-16	SD-1053	HENRIETTA AVE	EDGEEMERE DR	SW	307	4'6"	5'3"	14'
046-2-17	SD-1053	GARNET ST	HENRIETTA AVE	SE	300	5'3"		10'
046-2-18	SD-1053	HENRIETTA AVE	GARNET ST	SE	300	4'6"		7'
046-5-08	SD-1053	HENRIETTA AVE	EMERALD ST	NW	300	6'6"		4'
046-5-09	SD-1053	EMERALD ST	HENRIETTA AVE	NE	300	8'0"	8'6"	10'
046-5-10	SD-1053	EMERALD ST	HENRIETTA AVE	SE	300	7'9"		10'
046-5-11	SD-1053	ARTESIA ST	HENRIETTA AVE	NE	300	7'9"	8'6"	10'
046-5-12	SD-1053	HENRIETTA AVE	ARTESIA ST	SW	300	6'6"		3.50'
046-5-13	SD-1053	ARTESIA ST	HENRIETTA AVE	SE	300	7'6"		10'
046-5-14	SD-1053	HENRIETTA AVE	ARTESIA ST	SE	300	6'0"		3.50'
046-5-15	SD-1053	MARICOPA ST	HENRIETTA AVE	NE	307	8'6"	8'9"	14'
046-5-16	SD-1053	MARICOPA ST	HENRIETTA AVE	SE	307	8'0"		14'
046-5-17	SD-1053	HENRIETTA AVE	LORNA ST	NE	300	5'6"		3.50'
046-5-18	SD-1053	HENRIETTA AVE	LORNA ST	SE	300	6'0"		7'
047-3-19	SD-1021	EARL ST	SPENCER ST	SW				7'
047-3-20	SD-1021	EARL ST	SPENCER ST	SE				3.50'
047-5-08	SD-1021	MARICOPA ST	LADEENE AVE	NE				7'
053-2-13	SD-1053	LORNA ST	HENRIETTA AVE	NE	300	5'6"	6'0"	14'
053-2-14	SD-1053	LORNA ST	HENRIETTA AVE	SE	300	5'		14'
053-2-15	SD-1053	HENRIETTA AVE	LORNA ST	SE	300	6'0"		21'
053-2-16	SD-1053	HENRIETTA AVE	LORNA ST	SE				28'
054-2-06	SD-1021	MARICOPA ST	LADEENE AVE	SE				14'

CITY OF TORRANCE: AMIE INLET LOCATIONS								
ID	MAP #	STREET	NEAREST X-STREET	CORNER	CB_TYPE	V_IN	V_OUT	WIDTH
034-4-06	ST-0549	PRAIRIE AVE	CHALLENGER ST	SE	1	3.00'		3.50'
034-4-07	ST-0549	PRAIRIE AVE	CHALLENGER ST	SE	1	3.00'		3.50'
041-2-03	SD-0164	DEL AMO BLVD	MARINER AVE	NW				14'
041-3-04	SD-0164	DEL AMO BLVD	MARINER AVE	NE	3	5.00'		14'
041-3-06	SD-0164	DEL AMO BLVD	MARINER AVE	S	2	7.0'		7'
041-3-07	SD-0164	NORTH OF AMIE	MICHELLE DR	N ON ALLEY	6	6.5'		7'
041-5-03	SD-291	ROSLIN AVE	WHITE CT	NE	1	4.00'		3.50'
041-5-05	SD-291	ROSLIN AVE	WHITE CT	NE	1	4.00'		3.50'
041-5-11	SD-291	ROSLIN AVE	WHITE CT	SW	1	4.00'		3.50'
041-5-12	SD-469	ALLEY	SARA DR	NW/ SARA	1	3.66'		3.50'
041-6-01	SD-0164	MICHELLE DR	AMIE AVE	NW	2	3.5'		7.0'
041-6-03	SD-0164	MICHELLE DR	AMIE AVE	NE	1	3.50'		7'
041-6-04	SD-0164	MICHELLE DR	MADISON ST	NE	1	3.50'		3.50'
041-6-04	SD-0164	MICHELLE DR	MADISON ST	SE	1	4.00'		3.50'
041-6-05	SD-0164	MICHELLE DR	AMIE AVE	SW	3	4.75'		14'
041-6-11	SD-0367	OSAGE AVE	SPENCER ST	CUL-DE-SAC	2	4.00'		7'
041-6-13	SD-0164	SARA DR	MADISON ST	NE	1	3.50'		3.50'
041-6-13	SD-0164	SARA DR	MADISON ST	NE	1	3.50'		3.50'
041-6-18	SD-0164	MADISON ST	WHITE CT	NW	2	3.50'		7'
041-6-19	SD-0164	MADISON ST	WHITE CT	NE	2	3.50'		7'
041-6-25		SPENCER ST	AMIE AVE	SE				28'
041-6-26		SPENCER ST	AMIE AVE	SW				28'
042-1-03	SD-0341	MADRONA AVE	DEL AMO BLVD	NW	3			14'
042-1-04	SD-0341	MADRONA AVE	DEL AMO BLVD	NE	3	5.00'		14'
042-1-06	SD-0341	DEL AMO BLVD	MADRONA AVE	NW	1			3.50'
042-1-09	SD-0367	DEL AMO BLVD	MADRONA AVE	NE	2	4.00'		7'
042-1-12	SD-0367	DEL AMO BLVD	MADRONA AVE	NE	3	5.20'	6.00'	10'
042-1-13	SD-0341	DEL AMO BLVD	MADRONA AVE	SW	1			3.50'
042-2-01	SD-0367	DEL AMO BLVD	MADRONA AVE	NE	2	4.00'		7'
042-4-02	SD-0341	MADRONA AVE	DEL AMO BLVD	NE	3	4.00'		10'
042-4-03	SD-0341	MADRONA AVE	DEL AMO BLVD	NW	2			7'
048-3-01		SPENCER ST	AMIE AVE	NW				7'
048-3-04	SD-294C	EASTWOOD AVE	EMERALD ST	CUL-DE-SAC	1	4.35'	5.00'	3.00'
048-5-06	SD-114	REGINA AVE	ALLEY S OF EMERALD AVE	SE	5		AREA DRAIN 2'x6' (2-2'x3')	
048-6-03	SD-114	AMIE AVE	EMERALD ST	SW	6	7.00'		10'
048-6-04	SD-114	AMIE AVE	EMERALD ST	SE	3	5.00'		14'
048-1-03	SD-0339	MADRONA AVE	ONYX ST	NW	1			3.50'
048-1-04	SD-0339	MADRONA AVE	ONYX ST	NE	3			10'
048-4-04	SD-294C	ONYX ST	MADRONA AVE	SW	2	4.50'		7'
048-4-06	SD-0339	MADRONA AVE	ONYX ST	SW	1			3.50'
048-4-11	SD-0339	EMEARLD ST	MADRONA AVE	NW	1			3.50'
048-4-14	SD-0339	EMERALD ST	AVIS AVE	SW	1	3.00'		3.50'
048-4-15	SD-0339	EMEARLD ST	MADRONA AVE	SW	1	3.00'		3.50'
048-4-17	SD-0339	AVIS AVE	EMERALD ST	SW	3			10'
048-4-18	SD-0339	AVIS AVE	EMERALD ST	SE	1			3.50'
048-4-19	SD-0339	MADRONA AVE	EMERALD ST	SE	3	3.28'	3.53'	14'
048-4-20	SD-0339	MADRONA AVE	EMERALD ST	SW	1	3.00'		3.50'

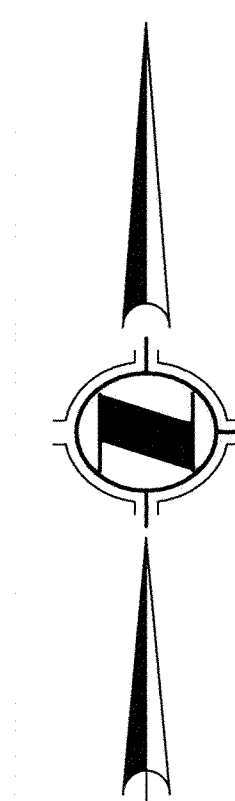
COUNTY: AMIE INLET LOCATIONS								
ID	MAP #	STREET	NEAREST X-STREET	CORNER	CB_TYPE	V_IN	V_OUT	WIDTH
048-3-07	SD-1021	AMIE AVE	SPENCER ST	SE	3	5'2"		10'
048-3-08	SD-1021	AMIE AVE	SPENCER ST	SW	2	4.3		7'
048-3-09	SD-1021	EASTWOOD AVE	GARNET ST	NW	1	5'8"		3.50'
048-3-10	SD-1021	EASTWOOD AVE	GARNET ST	NE	1	5'10"	6'0"	3.50'
048-3-11	SD-1021	OSAGE AVE	GARNET ST	NW	7	4'6"		3.50'
048-3-12	SD-1021	OSAGE AVE	GARNET ST	NE	1	5'10"	6'0"	3.50'
048-3-13	SD-1021	GARNET ST	MADISON ST	NW	1	5'9"		3.50'
048-3-14	SD-1021	GARNET ST	EASTWOOD AVE	NE	1	5'9"		3.50'
048-3-15	SD-1021	GARNET ST	AMIE AVE	SW	3	5'6"		14'
048-3-16	SD-1021	GARNET ST	MADISON ST	SW	4		AREA DRAIN 2-2'x3'	
048-3-17	SD-1021	GARNET ST	MADISON ST	SE	1	3'6"		3.50'
048-3-18	SD-1021	AMIE AVE	GARNET ST	SW	2	6'0"		7'
048-3-19	SD-1021	AMIE AVE	GARNET ST	SE	2			7'

NOTES TO THE CONTRACTOR TO FIELD VERIFY THE SIZE OF EXISTING INLETS PRIOR TO INSTALLING TRASH INTERCEPTOR.
CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR LOS ANGELES COUNTY CATCH BASINS FOR PERMITTING.

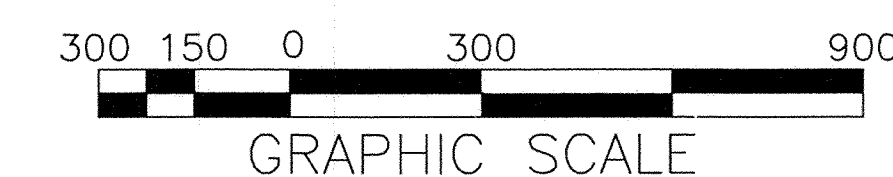
CITY OF TORRANCE: ENTRADERO INLET LOCATIONS								
ID	MAP #	STREET	NEAREST X-STREET	CORNER	CB_TYPE	V_IN	V_OUT	WIDTH
024-4-03	ST-743	ANZA AVE	190TH ST	SE	2			7'
024-4-04	ST-743	ANZA AVE	190TH ST	SW	2			7'
024-4-06	ST-743	ANZA AVE	ARVADA ST	NE	2			7'
024-4-08	ST-743	ARVADA ST	ANZA AVE	NE	2			7'
024-4-09	ST-743	ARVADA ST	ANZA AVE	SE	2			7'
030-3-03	SD-285	MILDRED AVE	TOMLEE AVE	NW	1	4'0"		3.50'
030-6-01	SD-285	FLAGLER LN	TOWERS ST	NW	3	3'9"		14'
030-6-06	SD-285	TOMLEE AVE	NORTON ST	NW	2	3'6"		7'
030-6-06	SD-285	TOMLEE AVE	NORTON ST	NE	1	4'0"		3.50'
030-6-08	SD-285	MILDRED AVE	TOMLEE AVE	SE	2	4'0"		7'
030-6-09	SD-285	MILDRED AVE	TOMLEE AVE	SW	2	3'6"		7'
031-1-04	SD-0039	RONALD AVE	TOWERS ST	NW	3	9.0'		21'
031-1-05	SD-0039	RONALD AVE	TOWERS ST	SE	3	8.0'		21'
031-2-02	SD-0039	TOWERS ST	STURGESS DR	SW	2	6.5'		7'
031-4-04	SD-285	REDBEAM AVE	DEELANE ST	NE	2	4'0"		7'
031-4-05	SD-285	LINDA DR	DEELANE ST	NE	2	4'0"		7'
031-4-05	SD-285	LINDA DR	DEELANE ST	NW	1	4'0"		3.50'
031-4-10	SD-285	REDBEAM AVE	DEELANE ST	SW	1	3'6"		3.50'
031-4-11	SD-285	REDBEAM AVE	DEELANE ST	SE	2	4'0"		7'
031-4-14	SD-285	DEELANE ST	LINDA DR	SE	2	4'0"		7'
031-5-03	SD-0039	HALISON ST	HALISON ST	NW	1	4'0"		3.50'
031-5-04	SD-0039	HALISON ST	HALISON PL	SW	1	3'6"		3.50'
031-6-06	SD-0039	HALISON PL	HALISON ST	N	1	4'0"		3.50'
032-1-01	ST-743	ANZA AVE	TOWERS ST	NW	2			7'
032-1-03	ST-743	ANZA AVE	TOWERS ST	NE	2			7'
032-1-04	ST-743	TOWERS ST	ANZA AVE	NE	2			7'
032-1-06	ST-743	TOWERS ST	ANZA AVE	SE	3			3.50'
032-1-09	ST-743	ANZA AVE	NARROT ST	NE	2			7'
032-1-10	ST-743	ANZA AVE	NARROT ST	NE	2			7'
032-1-12	ST-743	NARROT ST	ANZA AVE	NE	3			3.50'
032-1-14	ST-743	NARROT ST	ANZA AVE	SE	2			7'
032-1-15	ST-743	ANZA AVE	NARROT ST	SW	2			7'
032-1-18	ST-743	ANZA AVE	NARROT ST	SW	2			7'
032-4-02	SD-0023	DEELANE ST	FLAVIAN AVE	S	9	4'6"		28'
032-5-01	ST-743	ANZA AVE	DEELANE ST	NE	2			7'
032-5-03	SD-0066	DEELANE ST	INGLEWOOD AVE	NE	2	3'6"		7'
032-5-04	SD-0066	DEELANE ST	INGLEWOOD AVE	NE	6	4'6"		5'
032-5-05	SD-0023	ANZA AVE	DEELANE ST	SE	9	4'0"		21'
032-5-06	SD-0023	ANZA AVE	DEELANE ST	SE	6	6'9"		5'
032-5-07	SD-0023	ANZA AVE	DEELANE ST	SW	6	8'9"		5'
032-6-04	SD-93	TALISMAN ST	HALISON ST	NW		5-CURB DRAINS W=4', 2.5', 3.75', 2.5', 4.5'		

NOTES TO THE CONTRACTOR TO FIELD VERIFY THE
SIZE OF EXISTING INLETS PRIOR TO INSTALLING
TRASH INTERCEPTOR.

CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR LOS
ANGELES COUNTY CATCH BASINS FOR PERMITTING.



SCALE: 1" = 300'



INLET LOCATIONS MAP - AMIE BASIN : C-31

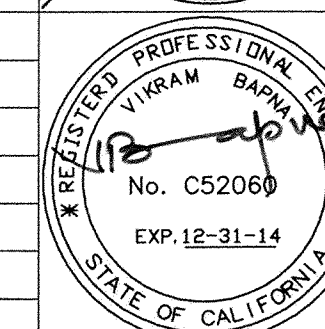
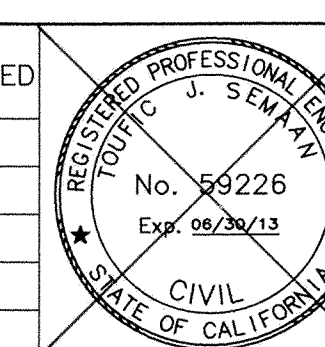
LEGEND

- 055-1-02 ARS INSERTS TO BE INSTALLED
 - ▶ 055-1-02 NO INSERT REQUIRED
 - 055-1-02 FLO-GARD AREA DRAIN INSERT OR EQUAL
- _____ WATERSHED BOUNDARY

PREPARED BY:



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FULLERTON, CA 92831
(714) 526-7500 OFFICE (714) 526-7004 FAX
www.cwecorp.com

[illegible]

CITY OF TORRANCE
PUBLIC WORKS DEPARTMENT

DRAWN: ALF

DESIGNED: C.P.

PROJECT ENGINEER: VIKRAM BAPNA

DIVISION
ENGINEER. JOHN DETTLE

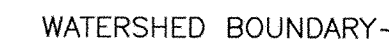
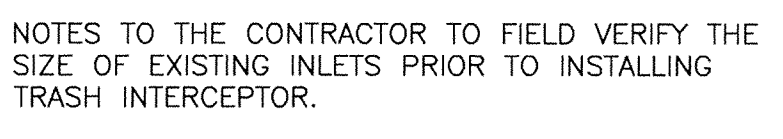
APPROVED:

TOUFIQ J. SEMAAN
ACTING CITY ENGINEER
R.C.E. NO. 59226



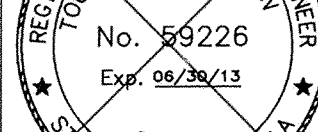
DATE
EXP. 06/30/13

SCALE: AS SHOWN	SHEET 33 OF 111
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PLAN NO.	SD - 500
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INLET LOCATIONS MAP - ENTRADERO BASIN : C-33

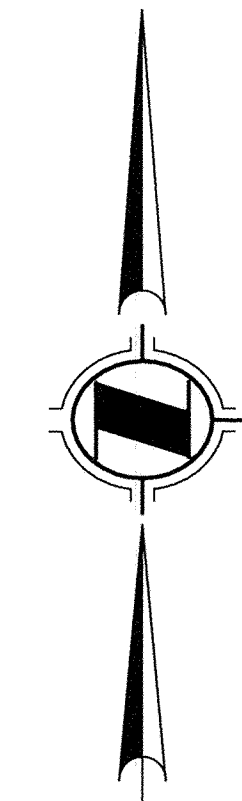
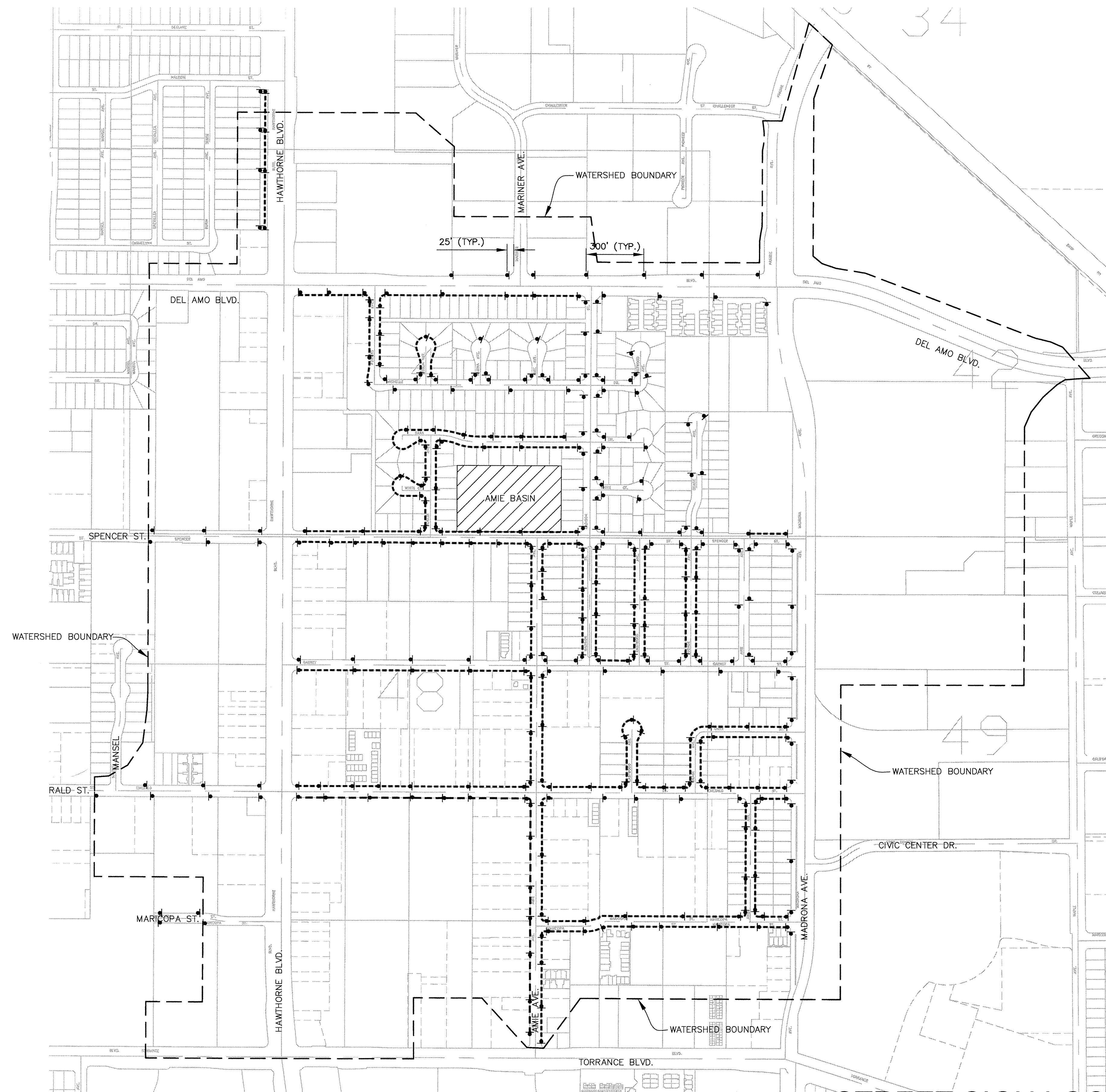
REV.	DATE	DESCRIPTION	BY	CHECKED	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT		
						DRAWN: ALF	APPROVED:
						DESIGNED: C.P.	 5/29/13
						PROJECT ENGINEER: VIKRAM BAPNA	TOUFIK J. SEMAAN ACTING CITY ENGINEER R.C.E. NO. 59226 DATE EXP. 06/30/13
						DIVISION ENGINEER: JOHN DETTLE	SCALE: AS SHOWN SHEET 35 OF 111
							PLAN NO. SD - 500

LEGEND

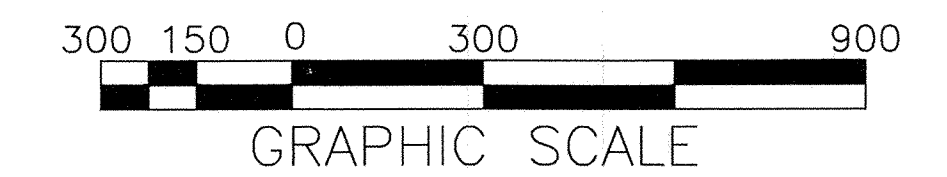
• 055-1-02	ARS INSERTS TO BE INSTALLED
▶ 055-1-02	NO INSERT REQUIRED
■ 055-1-02	FLO-GARD AREA DRAIN INSERT OR EQUAL
—	WATERSHED BOUNDARY

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SCALE: 1" = 300'



STREET SIGN LOCATIONS MAP - AMIE BASIN : C-34

LEGEND

— — — — — WATERSHED BOUNDARY

—•—•—•— SIGNS UNDER THESE LINES
ARE EXISTING, SIGN TO BE
REPLACED.

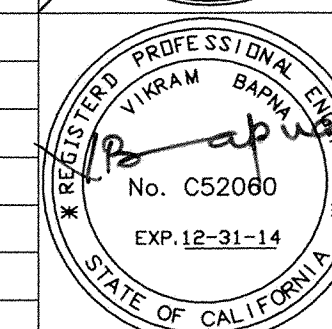
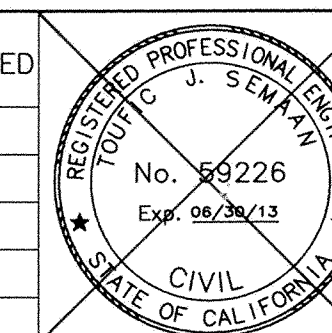
ALL OTHER SIGN LOCATIONS
WILL REQUIRE NEW POST AND
SIGN.

NOTE: SEE STREET SWEEPER
ROUTE PLAN IN SPECIFICATIONS
FOR "NO PARKING" HOURS

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[illegible]

CITY OF TORRANCE
PUBLIC WORKS DEPARTMENT

★ DRAWN: ALF

DESIGNED: C.P.

PROJECT VIKRAM BARNIA

DIVISION
ENGINEER: JOHN DETTLE

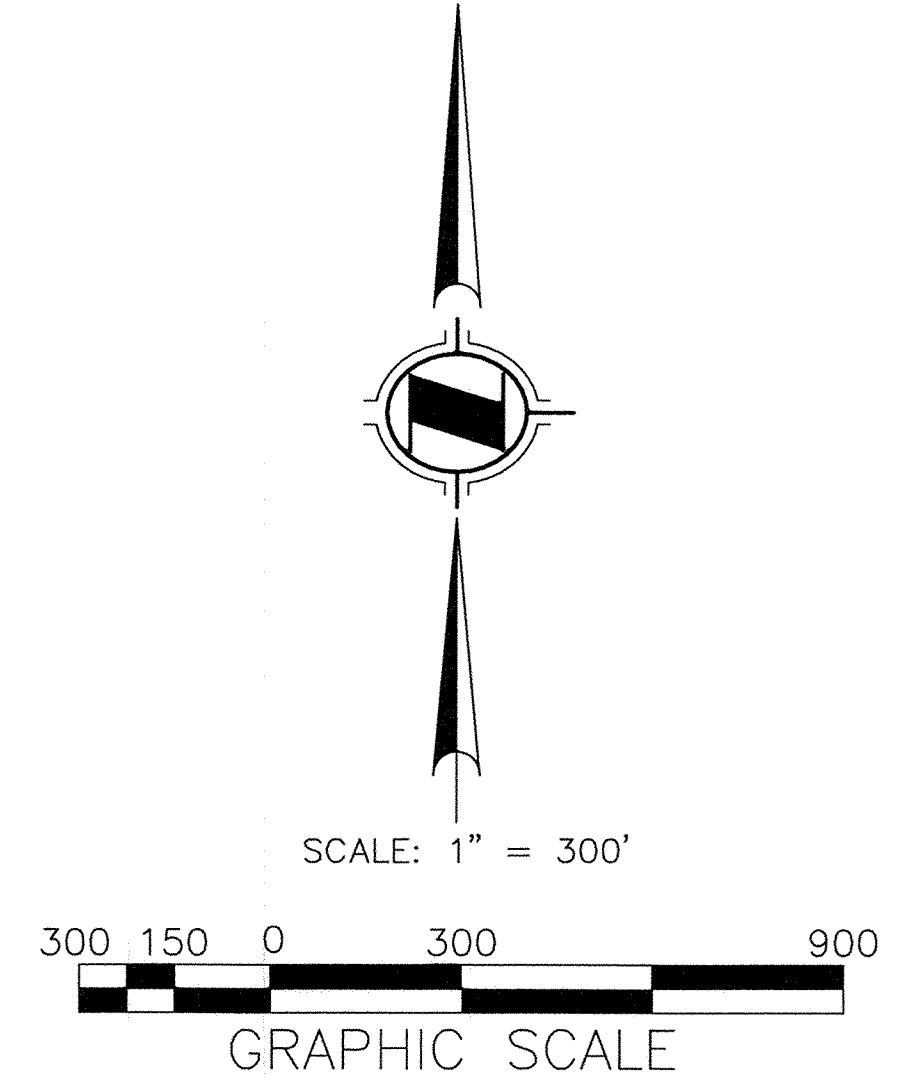
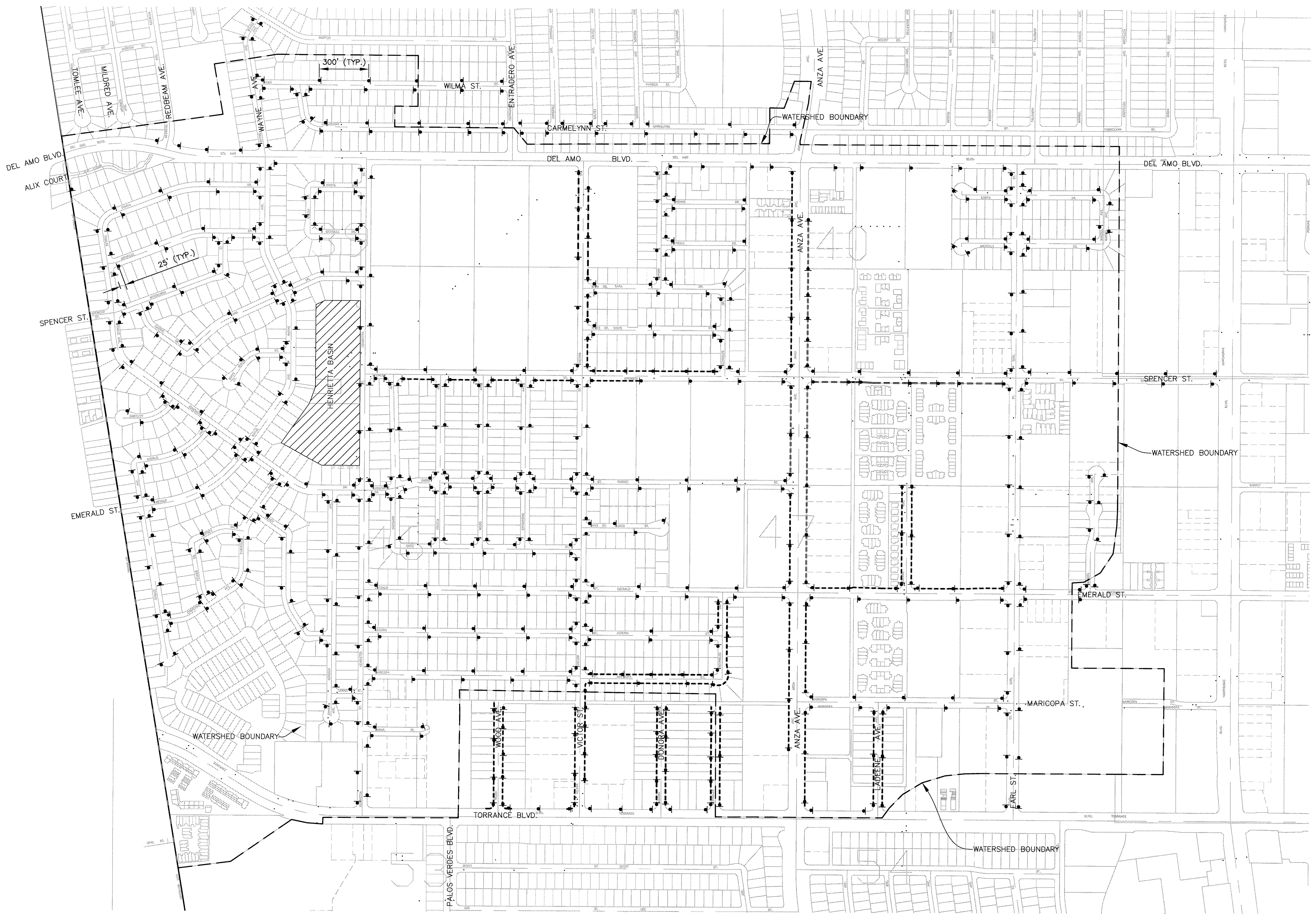
APPROVED:

[Signature] 5/28/13

TOUFIC J. SEMAAN
ACTING CITY ENGINEER
R.C.E. NO. 59226

SCALE: AS SHOWN	SHEET 36 OF 111
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PLAN NO. SD - 500



STREET SIGN LOCATIONS MAP - HENRIETTA BASIN : C-35

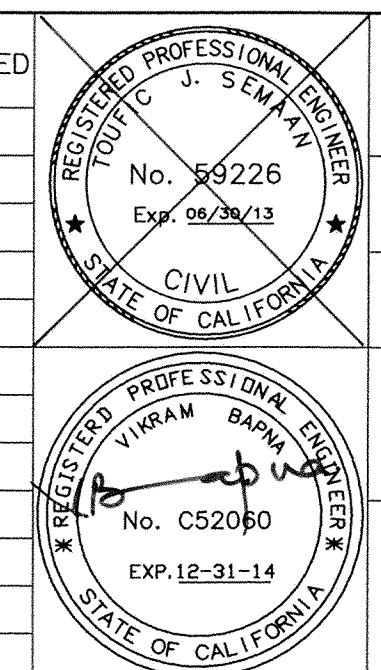
LEGEND

- WATERSHED BOUNDARY
- - - - - SIGNS UNDER THESE LINES ARE EXISTING, SIGN TO BE REPLACED.
- ALL OTHER SIGN LOCATIONS WILL REQUIRE NEW POST AND SIGN.

NOTE: SEE STREET SWEEPER ROUTE PLAN IN SPECIFICATIONS FOR "NO PARKING" HOURS

PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE., SUITE 240
FULLERTON, CA 92831
(714) 526-7500 OFFICE (714) 526-7004 FAX
www.cwecorp.com

REV.	DATE	DESCRIPTION	BY	CHECKED



CITY OF TORRANCE PUBLIC WORKS DEPARTMENT	
DESIGNED: C.P.	APPROVED: <i>[Signature]</i> 5/28/13
PROJECT ENGINEER: VIKRAM BAPNA	DATE: 06/30/13
DIVISION ENGINEER: JOHN DETTLE	SCALE: AS SHOWN SHEET 37 OF 111
	PLAN NO. SD - 500